1 KDN

UNI EN 12845 FIRE-FIGHTING PUMP SETS

TECHNICAL DATA

Operating range: from 10 to 400 m^2/h
Pumped liquid: clean, free of solids and abrasives, non-viscous, non-aggressive, non-crystallised and chemically neutral, with properties similar to water.
Pumped liquid temperature range: from -15 to 70 °C.
Maximum ambient temperature: + 40°C
Maximum operating pressure: 16 bar (1600kPa) PN16
Special executions on request:
Diesel version with water/water heat exchanger.
Electric 230 three-phase 50 or 60 Hz, bronze impeller.

APPLICATIONS

The **UNI EN 12845** sets have been designed and built to meet the needs of automatic fixed sprinkler or hydrant fire-fighting systems, in order to detect the presence of a fire, and extinguish it with water during the initial stages, or to control the flames, so that the fire may be extinguished with other means.

CONSTRUCTION FEATURES OF THE UNI EN 12845 FIRE-FIGHTING PUMP SET

Pre-assembled set on galvanised steel base, supporting the pump, the motor, and the electric control panel. The pump is coupled, by means of a spacer elastic coupling, to an electric **(efficiency level IE3)** or Diesel motor capable of providing the power absorbed by the pump at any pump load condition, from no-load, to a load corresponding to**NPSH16m (as requested by section 10.1 of the UNI EN 12845 standard).**
The UNI EN 12845 DAB fire-fighting sets are supplied in modular version. This type of solution facilitates the transport, as well as the installation of DAB fire-fighting sets in pump rooms, even in case of narrow entrance doors. Thanks to a coupling kit (supplied as accessory), it is possible to complete all the compositions contemplated by the standard (one, two, three pumps, electric or Diesel, with or without compensation pump).
Each module has a serial number with its own declaration of conformity, and its own installation and maintenance manual.

Specific characteristics of the Diesel engine-driven pump

Diesel engine-driven pump sets have a vibration dampening system that reduces the amount of the vibrations produced by the Diesel engine reaching the system. This consists of rubber anti-vibration feet and couplings. Each Diesel engine-driven pump includes two start-up batteries and a Diesel tank providing 6 hours of continuous operation. The Diesel engine has an air/air cooling system for low powers (up to 26 kW), and air/water cooling system for higher powers (37 kW and over). The Diesel engine can operate continuously at full load in accordance with ISO 3046 standards, curve NA (section 10.9.1 of UNI EN 12845).

CONSTRUCTION FEATURES OF THE PUMP

KDN range pump with cast iron single stage spiral body in accordance with DIN-EN 733 (formerly DIN 24255); cast iron seal cover and support. Flanges in accordance to DIN 2533 (DIN 2532 for DN 200). Cast iron impeller, closed and dynamically balanced, with compensation of the axial thrust through balancing holes, operation on interchangeable wear rings (on request). Stainless steel pump shaft supported by two permanently lubricated oversized ball bearings, housed inside an appropriate chamber in the support.
Standard seal device: standardised mechanical seal according to DIN 24960 in carbon/silicon carbide with EPDM OR rings.

COMPENSATION PUMP

All the DAB fire-fighting pump sets are available with or without compensation pump. The compensation pump (JET, KV, or KVC models) intervenes automatically in case of small pressure drops in the fire-fighting system, reinstating the pressure to the required level, and therefore avoiding pointless starts of the main pumps. Installed on the main pump base side, it is connected to the delivery manifold of the main pump, and includes: ball valves on the suction and delivery, check valve on the delivery, pressure switch, 18 litre expansion vessel, protection and control panel.

HYDRAULIC STRUCTURE

The suction of the KDN pump is supplied with flange for the connection to the suction kit (supplied as accessory). The suction kit consists of an eccentric diverter adaptor with opening angle of less than 20 °. The kit can keep the water speed lower than 1,5 m/s, as required by section 10.6.2.3 of the UNI EN 12845 standard. On the delivery side are a concentric diverter adaptor ready for the connection of a 2" union for the connection of the priming tank (positive suction installation), vibration coupling (in the Diesel version), check valve and circuit with no. 2 start-up pressure switches with test valve for the same, shut-off valve (with manual reducer from DN125) and galvanised steel delivery manifold ready for the connection of the compensation pump and expansion vessel* **(expansion vessels are guaranteed for 5 years)**.
(*Supplied as standard only in the versions with compensation pump).

ELECTRIC CONTROL BOX

Fire-fighting pump sets include an electric control panel for each pump, connected to the main components (motor, pressure switches, sensors, batteries, etc.).

ELECTRIC PUMP CONTROL PANEL

UNI EN 12845 FIRE-FIGHTING PUMP SETS

TECHNICAL DATA

Nominal power input voltage: 400 V +/- 5%
Phases: 3
Frequency: 50-60 Hz
Number of pumps that can be connected: 1
Maximum nominal power of use:
from 3 to 110 kW (depending on model).
Maximum nominal current of use: from 10 Amp to 250 Amp.
Ambient temperature operation limits: from +4 °C to +40 °C.
Relative humidity (without condensation):
50% at 40 °C MAX (90% a 20 °C)
Max. altitude: 3000 m (a.s.l.).
Protection class: IP55
Control panel construction:
According to EN60204, EN 60439-1, and UNI EN 12845/10779.

COMPONENTS

The control and protection panel includes the following components

INTERIOR OF CABINET

Connector for the powering of a GSM Modem (230 V, protected by fuse).
Motor protection fuses (aM type); current surge relay-motor protectors are not permitted by the standard.
Auxiliary circuit protection fuses (Gg type).
Direct pump starters (up to 7,5 kW).
Star/triangle starters (11 kW and over).
24 V auxiliary circuit transformers.
Alarm relay with terminal box for remote status control (as required by the UNI EN 12845 standard).
System start-up input connection terminal box.

ON FRONT PANEL

Electric pump control unit with:
Multifunction instrument with display (voltmeter, ammeter, cosfi metre, wattmeter, alarms and status).
Start and stop pushbuttons.
Status and alarm notification lamps.
Alarm/notification lamp test pushbutton.
0 - 1 selector (0 = automatic disabled; 1 = automatic on), key removable only for position one (AUTOMATIC ON).

REMOTELY CONTROLLED ALARMS:

Voltage present.
Phase sequence.
Pump start request from the pressure switches.
Pump start request from priming tank.
Pump in operation.
Start failed.

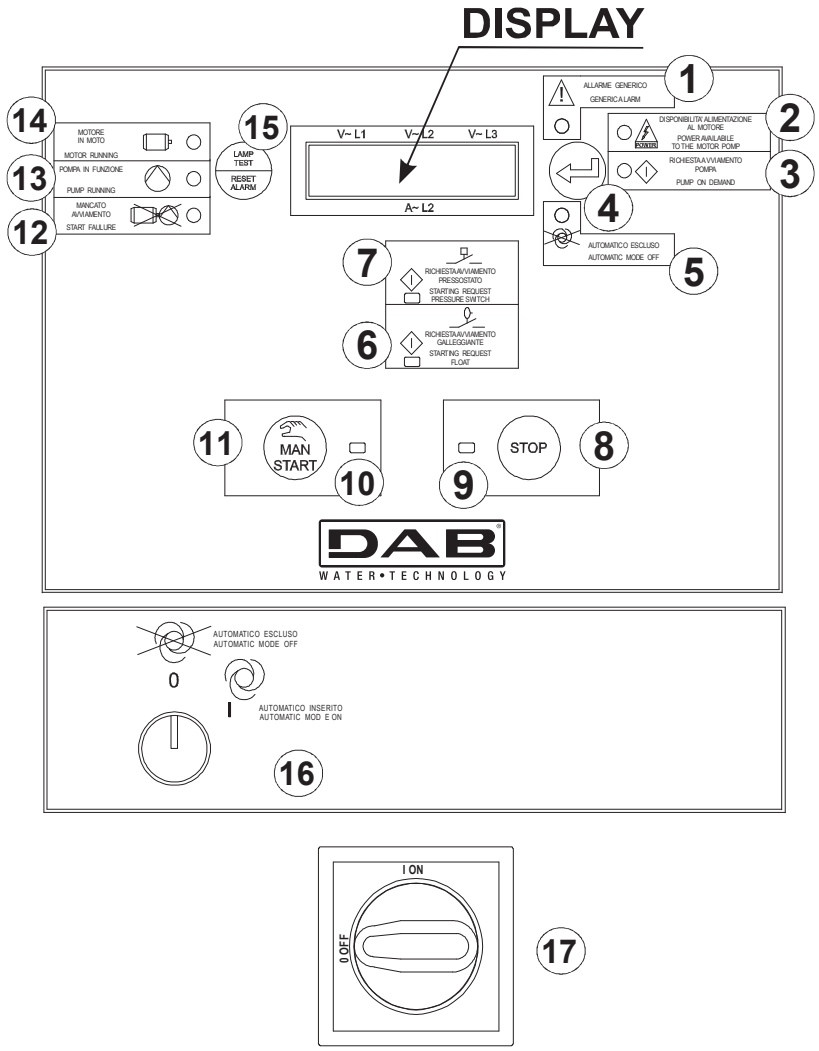
The above alarms can be remotely controlled in the following ways:
With relay wiring to the CSR-1 control panel (optional).
With RS-485 wiring to the CSR-1 control panel (optional).
With GSM Modem inside the cabinet, for forwarding status and/or alarm signals (optional).

ELECTRIC PUMP CONTROL PANEL

UNI EN 12845 FIRE-FIGHTING PUMP SETS

ELECTRIC PUMP CONTROL UNIT

The A1 electronic control unit supplied with the control panel offers the following features: automatic start from the pressure switches or the priming float switch, manual start, automatic monitoring of pump set faults and incorrect or unavailable power input voltage.



REF.	FUNCTION
1	LAMP - Generic alarm
2	LAMP - Power input to the motor detected
3	LAMP - Pump START request
4	Press to display the instruments
5	LAMP - Automatic start disabled
6	LAMP - START request from the priming tank float switch
7	LAMP - START request (call) from the pressure switches
8	MANUAL STOP pushbutton
9	LAMP - MANUAL STOP with STOP pushbutton notification

REF.	FUNCTION
10	LAMP - MANUAL START with MAN START pushbutton notification
11	MANUAL START pushbutton
12	LAMP - Start failed
13	LAMP - ELECTRIC PUMP RUNNING with motor running; detected by the electric pump running pressure switch
14	LAMP - MOTOR RUNNING; controlled by the ammeter detection
15	Reset lamp test pushbutton
16	Automatic mode disabling selector
17	Power input disconnection switch

DIESEL PUMP CONTROL PANEL

UNI EN 12845 FIRE-FIGHTING PUMP SETS

TECHNICAL DATA

Nominal power input voltage: 230V +/- 5%
Phases: 1+N
Frequency: 50-60 Hz
Number of pumps that can be connected: 1
Maximum nominal power of use:
from 7,5 to 197 kW (Diesel motor power)
Nominal power absorbed by the users:
approximately 790 W (3 Amp) at full load, 16 Amp power input line
Ambient temperature operation limits: from +4 °C to +40 °C
Relative humidity (without condensation):
50% at 40 °C MAX (90% a 20 °C)
Max. altitude: 3000 m (a.s.l.).
Protection class: IP55
Control panel construction:
According to EN60204, EN 60439-1, and UNI EN 12845/10779.

DIESEL PUMP CONTROL PANEL

COMPONENTS

The control and protection panel includes the following components

INTERIOR OF CABINET
Connector for the powering of a GSM Modem (12V, protected by fuse).
Auxiliary circuit protection fuses (Gg type).
2 x 12 V Diesel engine start relays (for 12 V starter motors with powers up to 145 kW).
2 x 24 V Diesel engine start relays (for 24 V starter motors with powers over 145 kW).
2 automatic battery chargers.
Alarm relay with terminal box for remote status control (as required by the UNI EN 12845 standard).
System start-up input connection terminal box.

ON FRONT PANEL
Diesel pump control unit with:
Multifunction instrument with display (voltmeter, ammeter, revolution counter, hours of operation counter, Diesel percentage level, oil pressure).
Start and Stop pushbuttons (one for each battery).
Status and alarm notification lamps.
Lamp test pushbutton.
First start-up TEST pushbutton (*).
Breakable glass protected rocker switch for pump start, bypassing the control unit in case of fault.
0 - 1 selector (0 = automatic disabled; 1 = automatic on), key removable only for position one (AUTOMATIC ON).

REMOTELY CONTROLLED ALARMS
Voltage present.
Phase sequence.
Pump start request from the pressure switches.
Pump start request from priming tank.
Pump in operation.
Start failed.

The above alarms can be remotely controlled in the following ways:
With relay wiring to the CSR-1 control panel (optional).
With RS-485 wiring to the CSR-1 control panel (optional).
With GSM Modem inside the cabinet, for forwarding status and/or alarm signals (optional).

The control panel receives the signal from the pressure switches and starts the engine-driven pump also when no power network voltage is detected. The pump running status is detected through the speed/revolution sensor signal (as required by section 10.9.8 of UNI EN 12845). The panel is equipped with a start-up system with two 12V batteries (as required by section 10.9.8. of UNI EN 12845). If one of the batteries is faulty, the panel automatically starts the pump up using the other battery (6 alternated starts).

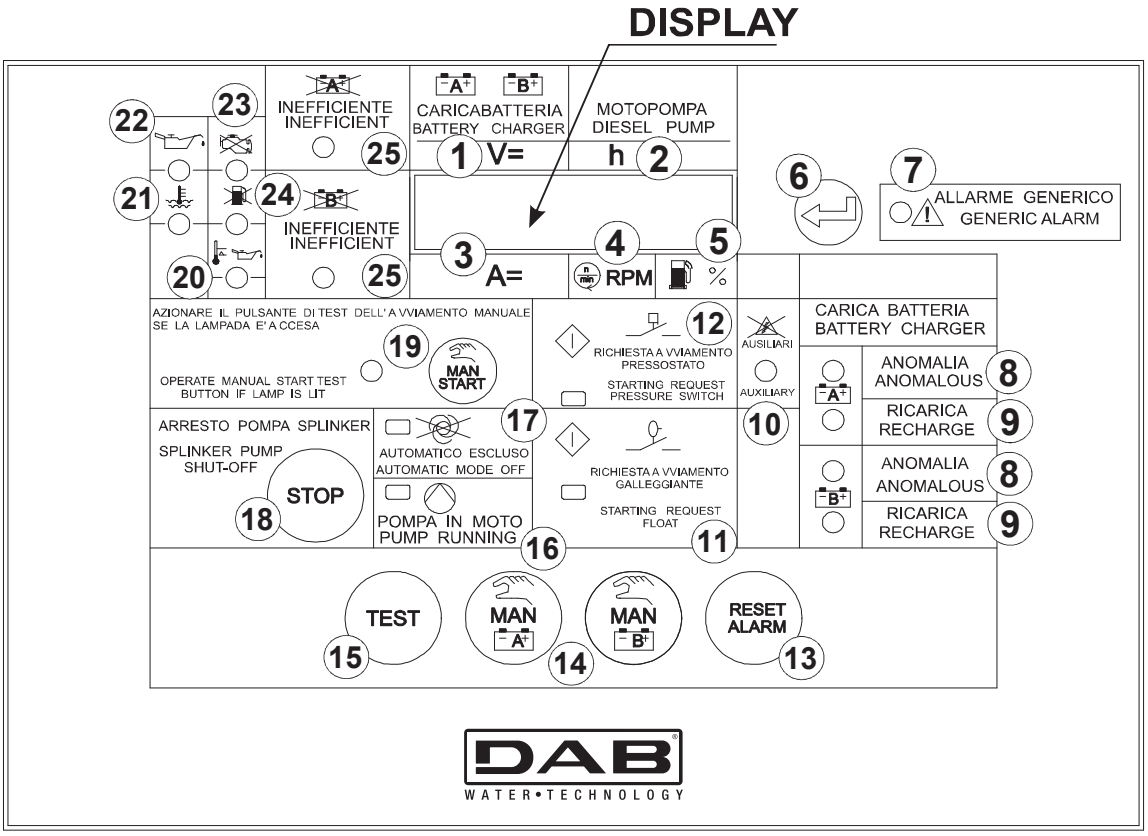
(*) When the engine-driven pump is put into operation on site for the first time, it will be necessary to check the start failure alarm (in accordance with section 10.9.12.2 of UNI EN 12845). For this purpose, on the front of the control panel is a TEST pushbutton that simulates no. 6 alternate start attempts on the two batteries, if there is no fuel. At the end of the TEST, the start failure alarm activates (lamp + N.O. contact)

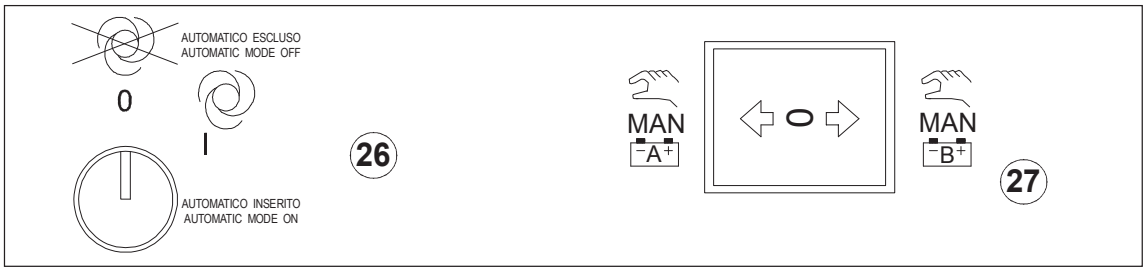
DIESEL PUMP CONTROL PANEL

UNI EN 12845 FIRE-FIGHTING PUMP SETS

DIESEL ENGINE-DRIVEN PUMP CONTROL UNIT

The A1 electronic pump control unit supplied with the control panel offers the following features: automatic start with 6 alternate pulses on the 2 batteries, with starter gear engaged check, manual start, battery efficiency check, particularly during start-up, automatic monitoring of pump set faults and display of battery charge signals.



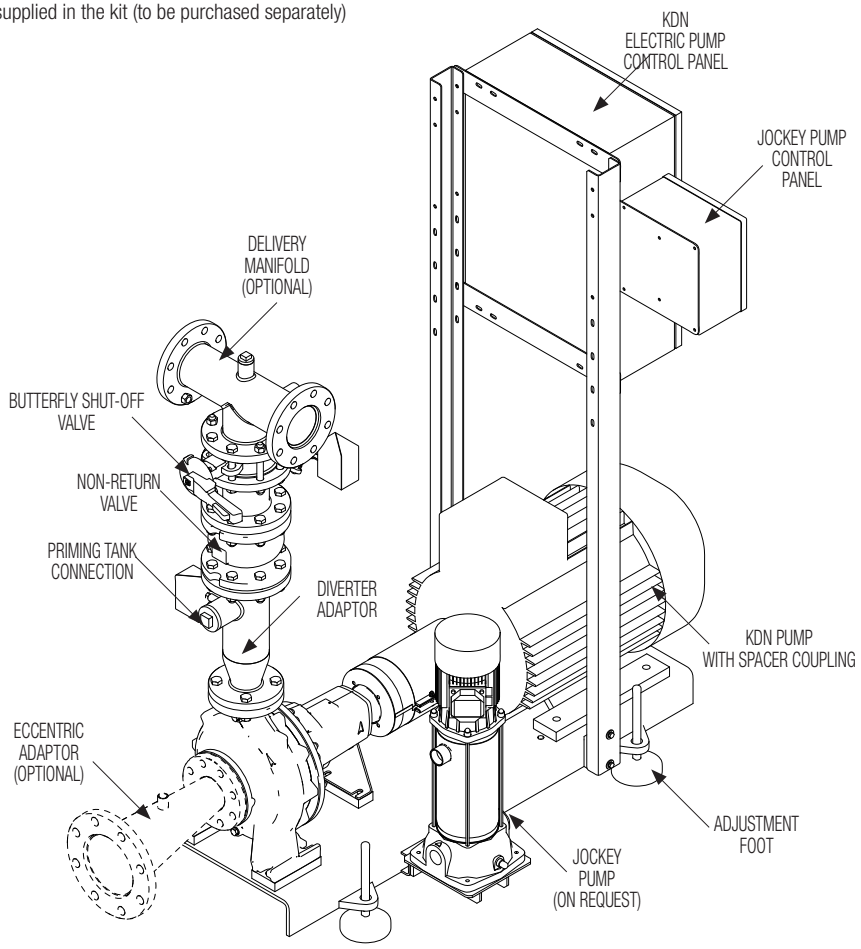


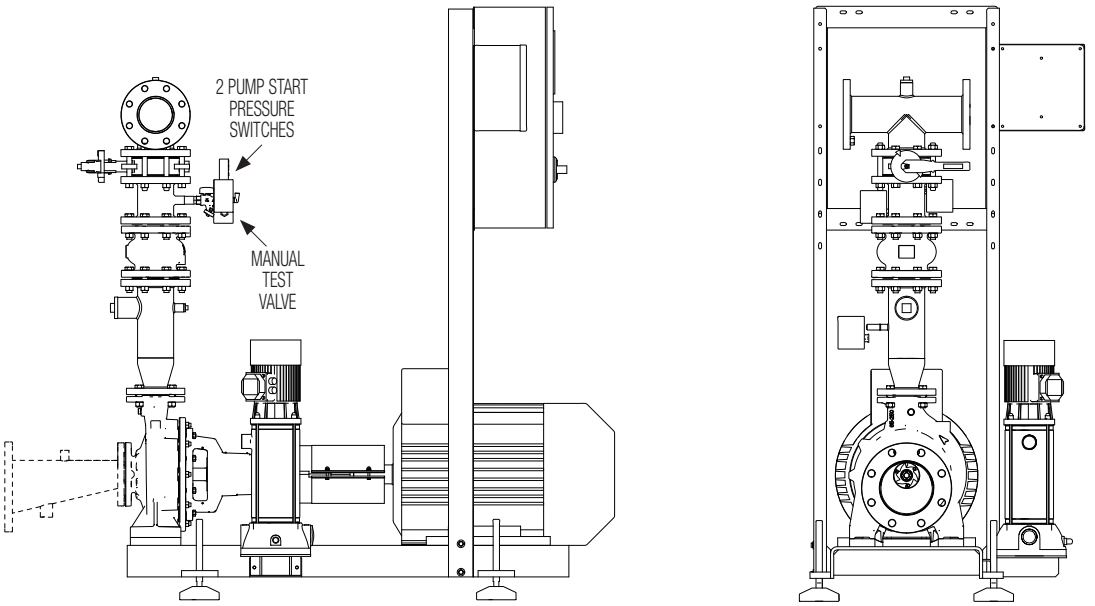
REF.	FUNCTION
1	A and B battery charger voltmeters
2	Hour meter
3	A and B battery charger ammeters
4	Hour meter
5	Fuel level gauge
6	- Press briefly to show instruments - Press and hold down for LED test
7	Generic alarm
8	Fault detected by the battery charger during battery charging
9	Battery charger ON
10	No power input to the battery charger detected alarm
11	Start request from the pump priming tank flow switch
12	START request (call) from the pressure switches
13	Fault reset

REF.	FUNCTION
14	Manual engine-driven pump start using batteries A and B (always active)
15	Start-up test
16	Engine-driven pump running
17	Automatic mode disabled
18	Engine-driven pump set stop pushbutton
19	Manual start test pushbutton and lamp
20	Oil or water heater not heating
21	Overtemperature alarm
22	Insufficient oil pressure alarm
23	Start failed alarm
24	Low fuel alarm
25	Faulty A and B battery alarm
26	Automatic mode disabling selector
27	Breakable glass protected pushbutton for emergency start of battery A or B

UNI EN 12845 SET COMPONENTS - ELECTRIC PUMP + JOCKEY PUMP

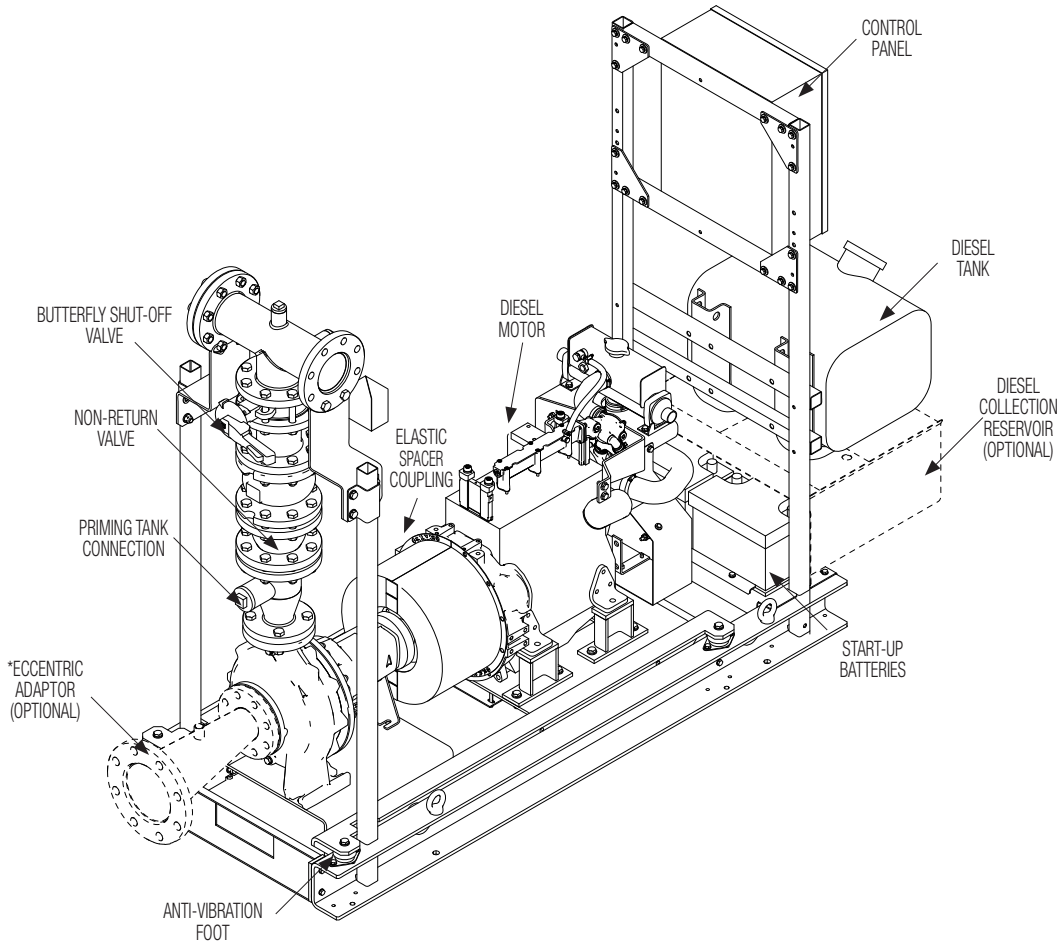
- - - - - - - - - element not supplied in the kit (to be purchased separately)

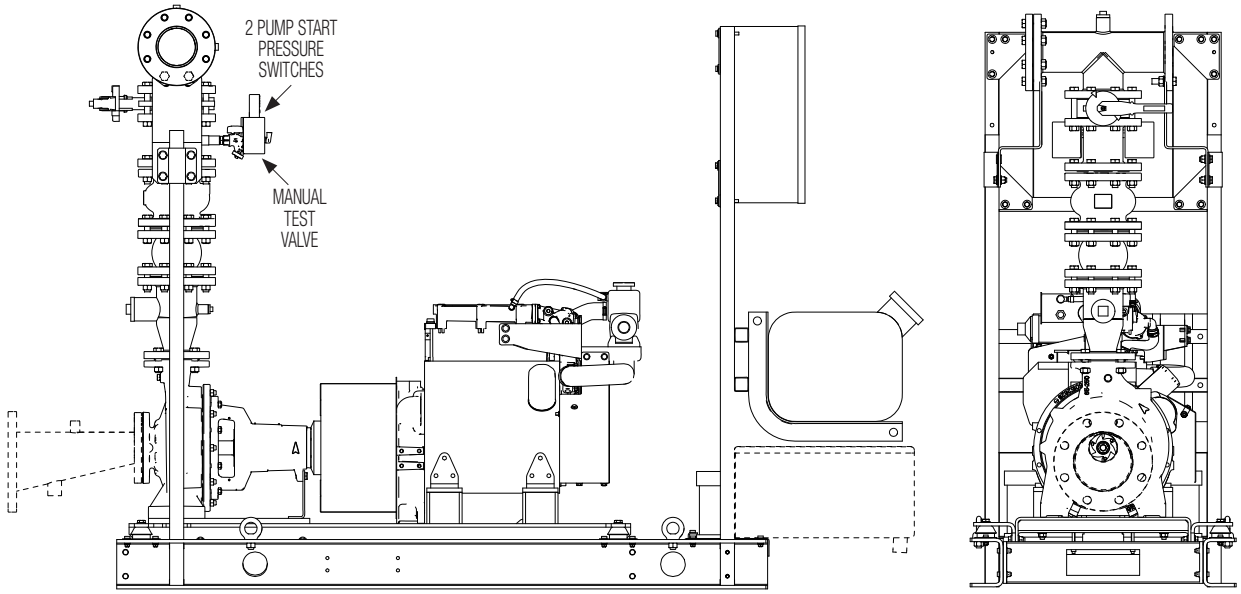




UNI EN 12845 SET COMPONENTS - ENGINE-DRIVEN PUMP SET

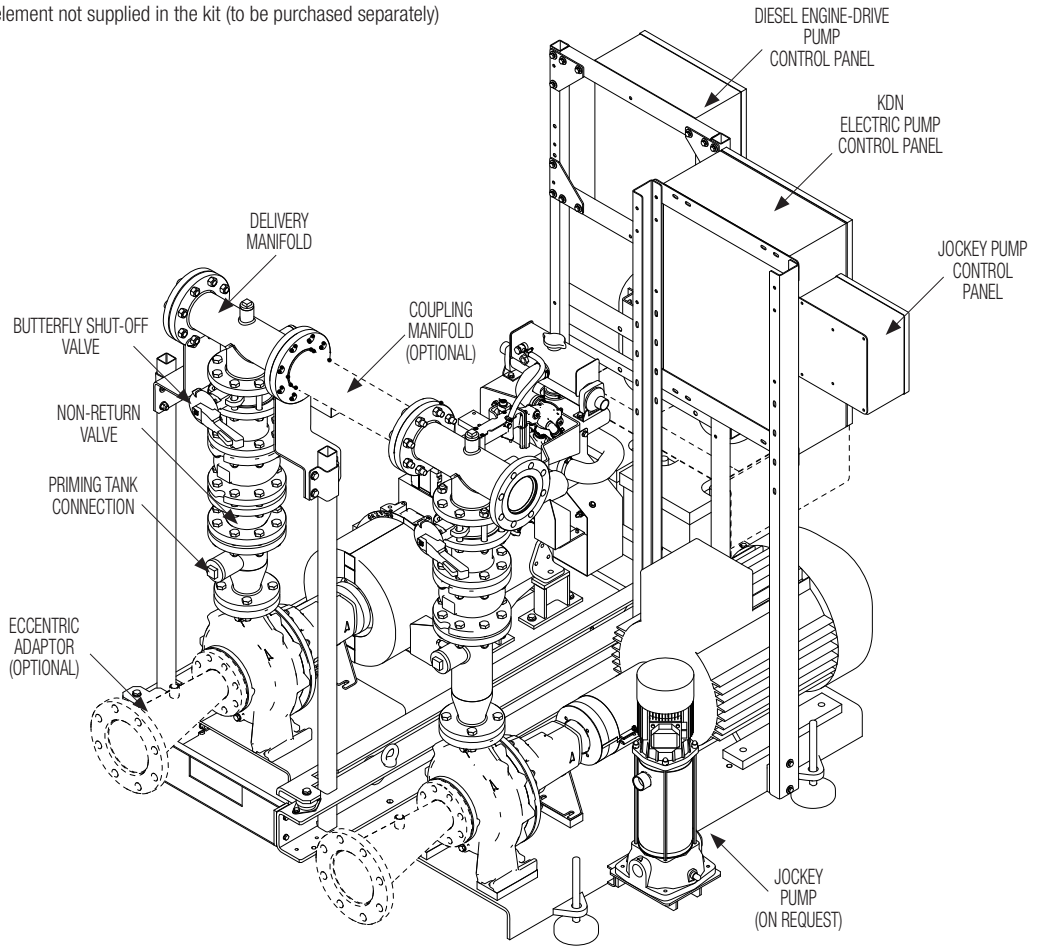
- - - - - - - - - element not supplied in the kit (to be purchased separately)

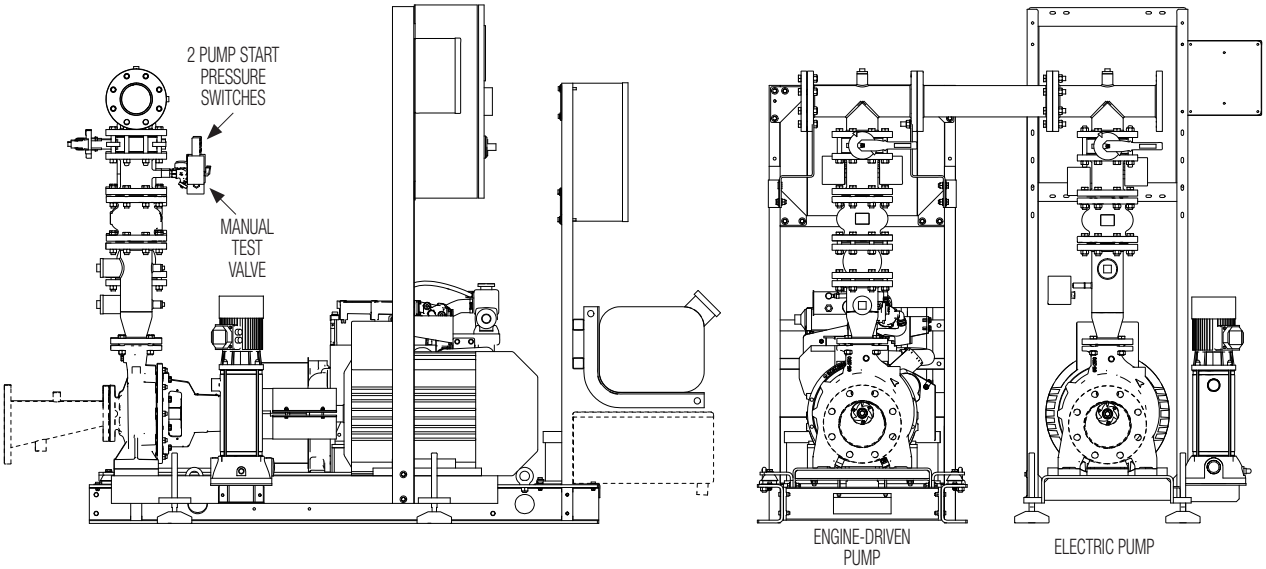




UNI EN 12845 SET COMPONENTS - ELECTRIC PUMP SET + ENGINE-DRIVEN PUMP SET

- - - - - - - - - element not supplied in the kit (to be purchased separately)

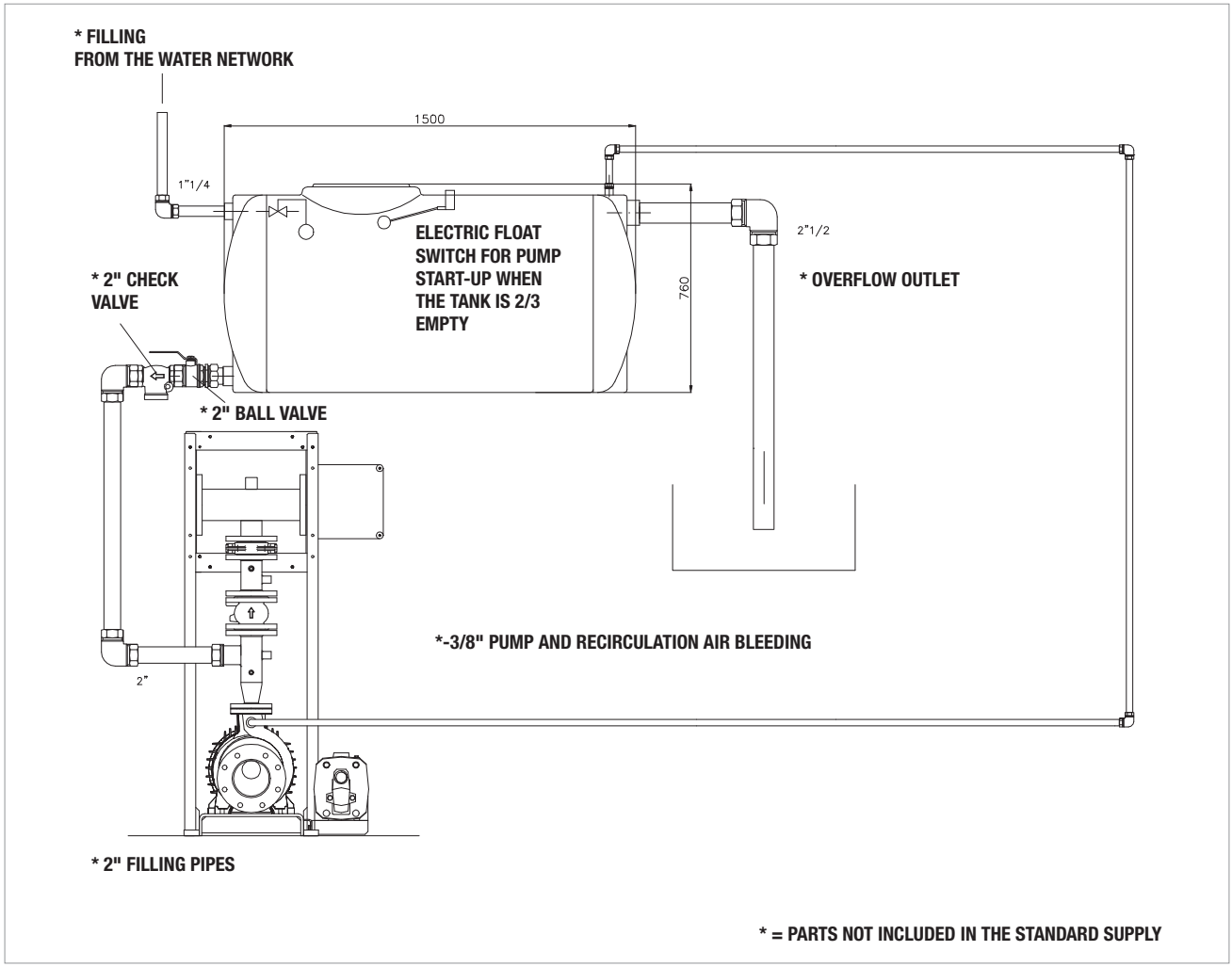




ACCESSORIES

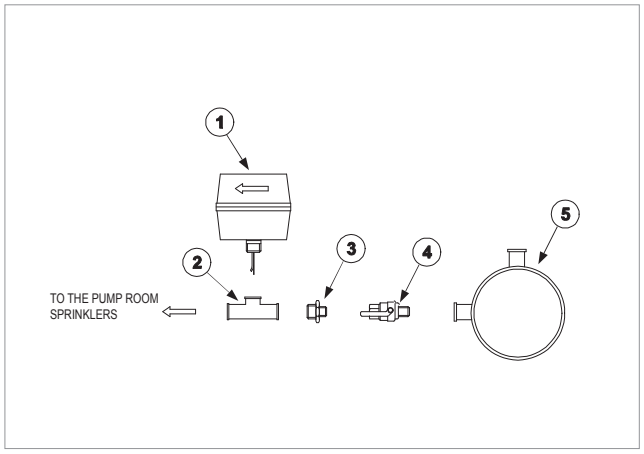
PRIMING TANK FOR POSITIVE SUCTION INSTALLATION

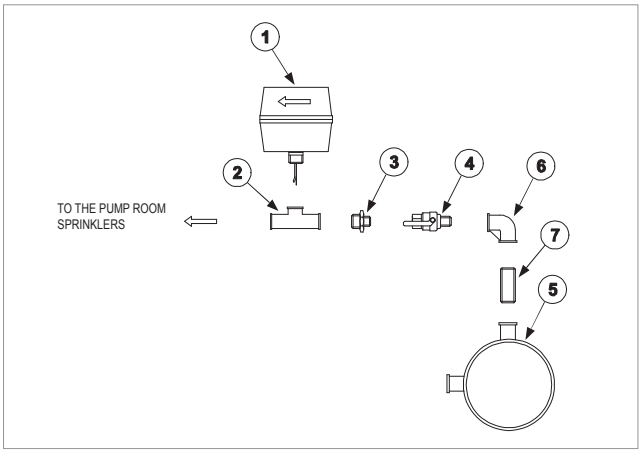
One 500 l priming tank must be installed for each main pump.



FLOW SWITCH KIT

The flow switch detects the activation of the sprinklers of the pump house (UNI EN 12845 10.3.2).
The flow switch kit must be installed on the 1" pipe of the delivery manifold of the DAB fire-fighting pump, and then connected to the CSR-1 alarm control panel.

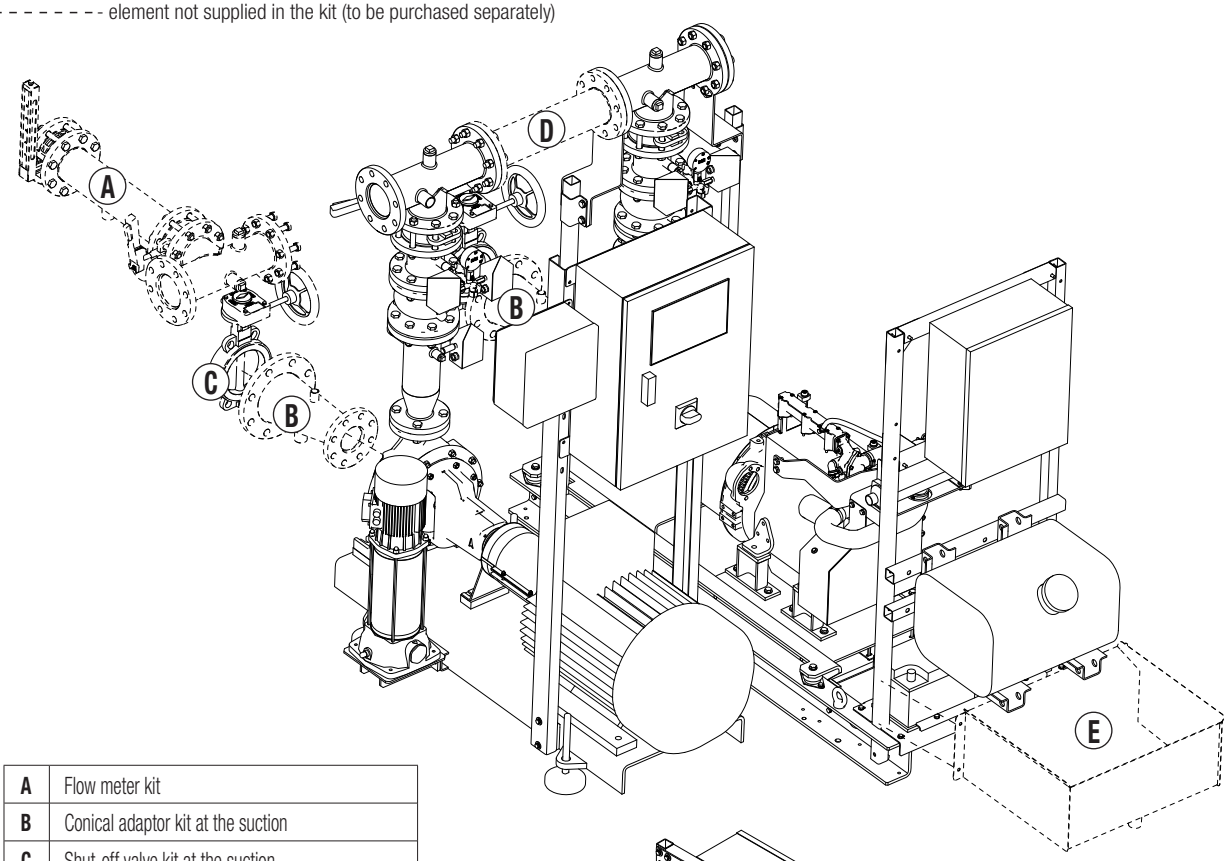




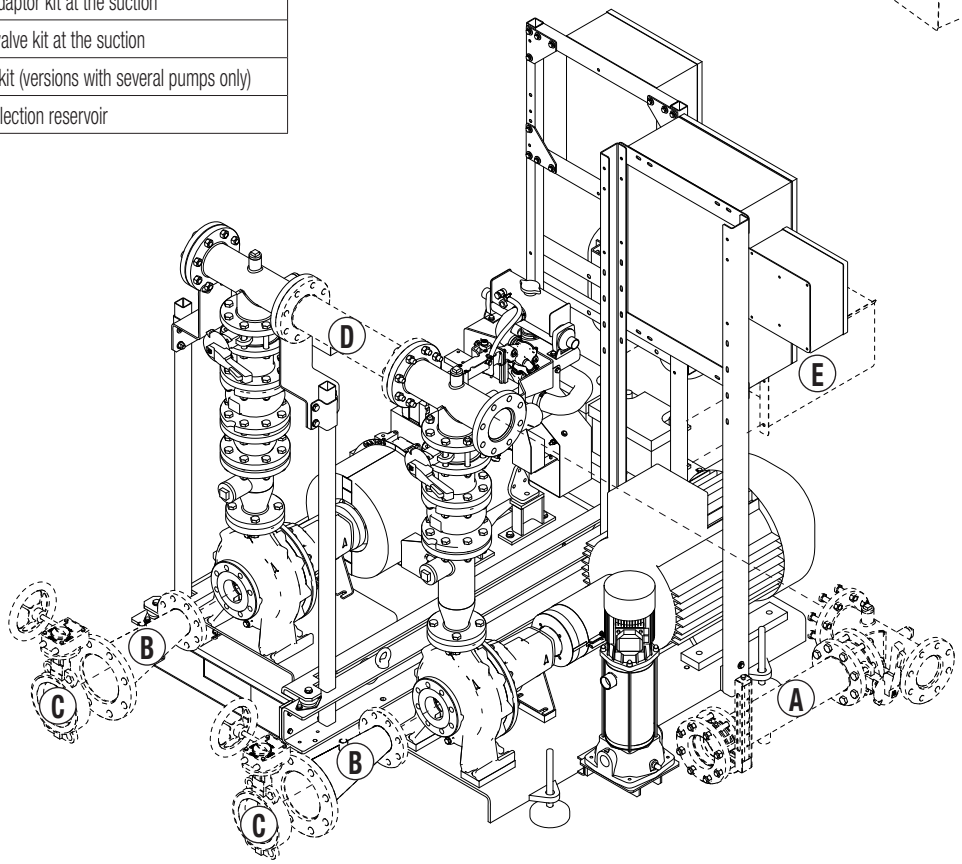
• The flow switch kit must be installed on the 1" pipe of the delivery manifold of the DAB fire-fighting pump. Seal the threads of the various components with Teflon, plumber's hemp, or anaerobic sealing paste.
• The flow switch detects activation of the sprinklers of the pump house as per section 10.3.2 of UNI EN 12845.
• The Normally Open contact of the 1" flow switch must be connected to an alarm device installed in a manned location (e.g. DAB alarm control panel – CSR-1 model, UNI EN 12845).

EXAMPLE OF ASSEMBLY OF UNI EN 12845 SETS - ELECTRIC PUMP + DIESEL ENGINE-DRIVEN PUMP SET

- - - - - - - - - element not supplied in the kit (to be purchased separately)



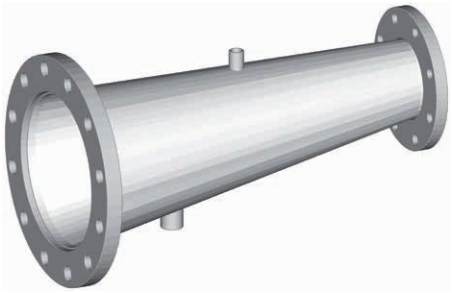
A	Flow meter kit
B	Conical adaptor kit at the suction
C	Shut-off valve kit at the suction
D	Coupling kit (versions with several pumps only)
E	Diesel collection reservoir

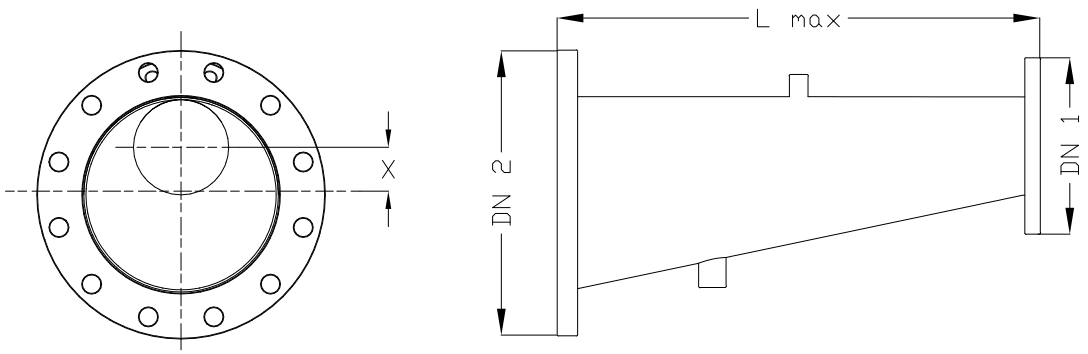


ACCESSORIES

SUCTION KIT

The kit consists of a conical eccentric adaptor, screws and washers.
It is required in order to avoid air pockets at the suction, and to keep the water speed below 1,5 m/s, as required by section 10.6.2.3 of UNI EN 12845.
No. 1 kit must be installed at the suction of each main pump.





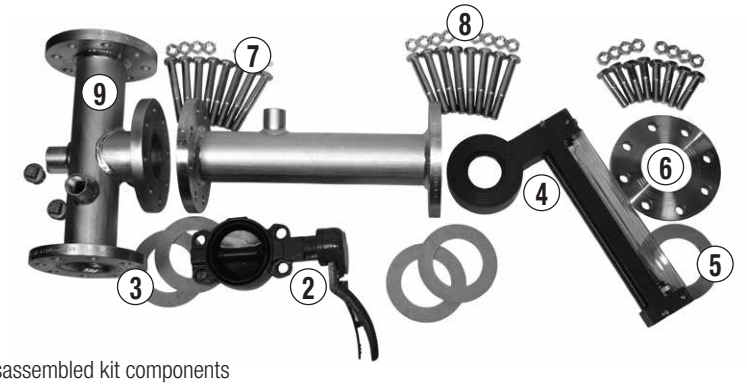
UNI EN 12845 ECCENTRIC SUCTION ADAPTORS					
PUMP MODEL	ADAPTOR MODEL	DN1 –PN 16 PUMP SIDE	DN2 – PN16 SYSTEM SIDE	L (mm)	X (mm)
NKV 10	KIT ASP.NKV10 EN12845 (DN65 - 19°)	DN 40	DN 65*	145	14
NKV 15 – NKV 20 KDN 32	KIT ASP.KDN32/NKV15-20 EN12845(DN80-19°)	DN 50	DN 80	200	14
KDN 40	KIT ASP.KDN40 EN12845 (DN100 - 19°)	DN 65	DN 100	235	19
KDN 50	KIT ASP.KDN50 EN12845 (DN125 - 19°)	DN 65	DN 125	320	32
KDN 65	KIT ASP.KDN65 EN12845 (DN150 - 19°)	DN 80	DN 150	380	40
KDN 80	KIT ASP.KDN80 EN12845 (DN200 - 19°)	DN 100	DN 200	570	52
KDN 100	KIT ASP.KDN100 EN12845 (DN250 - 19°)	DN 125	DN 250	685	67

*The standard requires DN 80 minimum for positive suction installations. In this case contact our sales network.

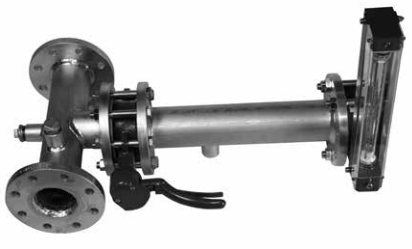
ACCESSORIES

FLOW METER

To be installed on a branch on the delivery manifold. The kits are suitable for both 1-pump and 2-pump sets, and are supplied unassembled.

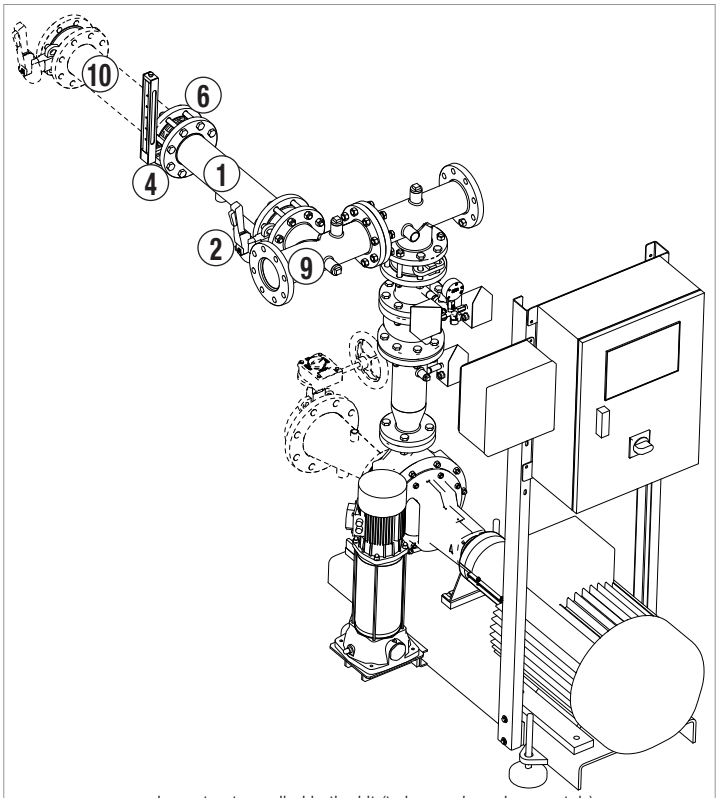


Disassembled kit components

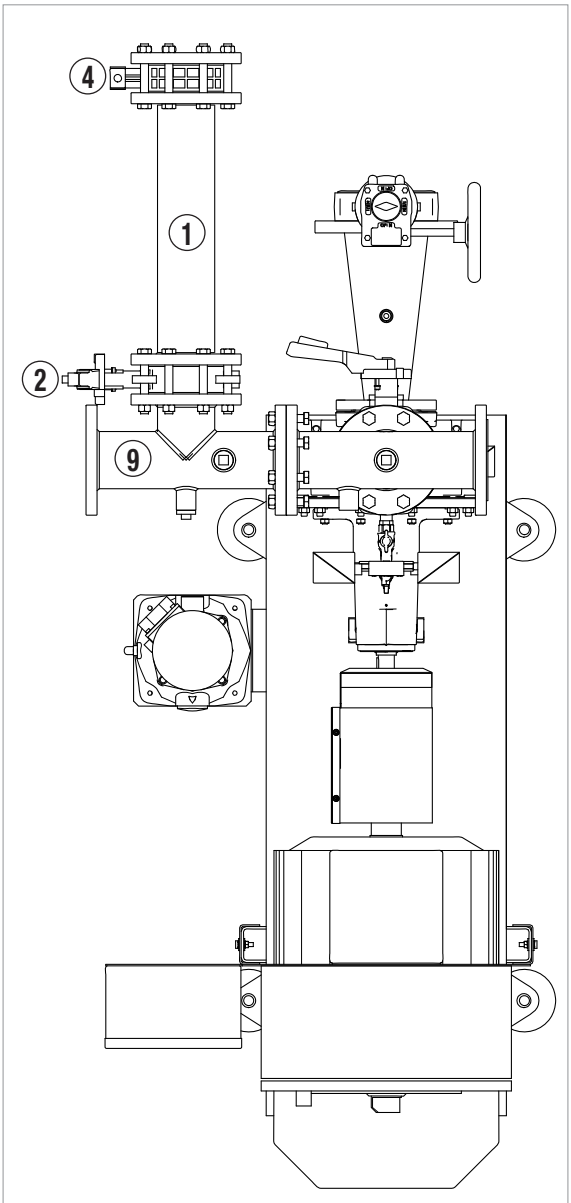


Assembled kit components

ASSEMBLY INDICATIONS FOR UNI EN 12845 1 AND 2 PUMP SETS (EXAMPLE)



- - - - - - - - - element not supplied in the kit (to be purchased separately)



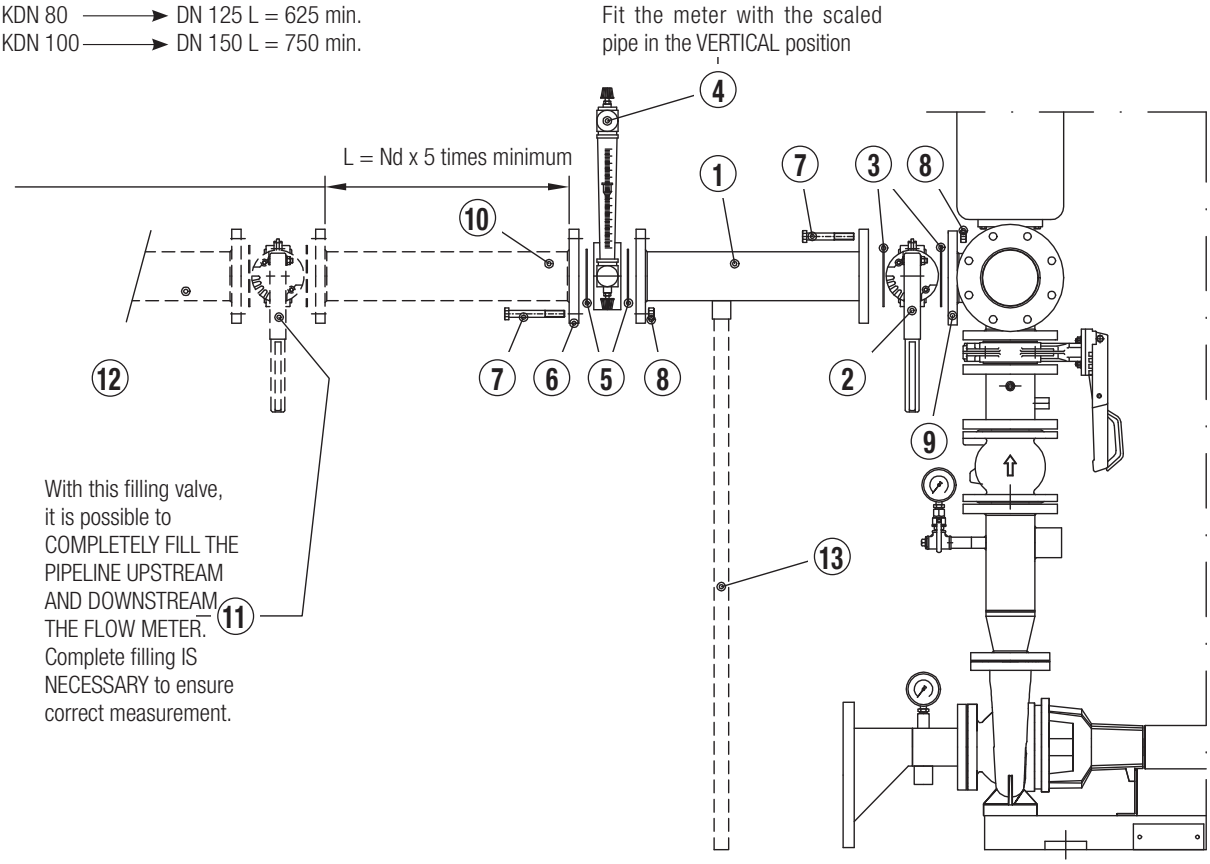
1	Flow meter extension
2	Butterfly valve
3	Butterfly valve seal
4	Flow meter - flow rate meter
5	Flow meter seals
6	Counter flanges
7	Fixing screws
8	Nuts
9	Meter adaptor

1 KDN

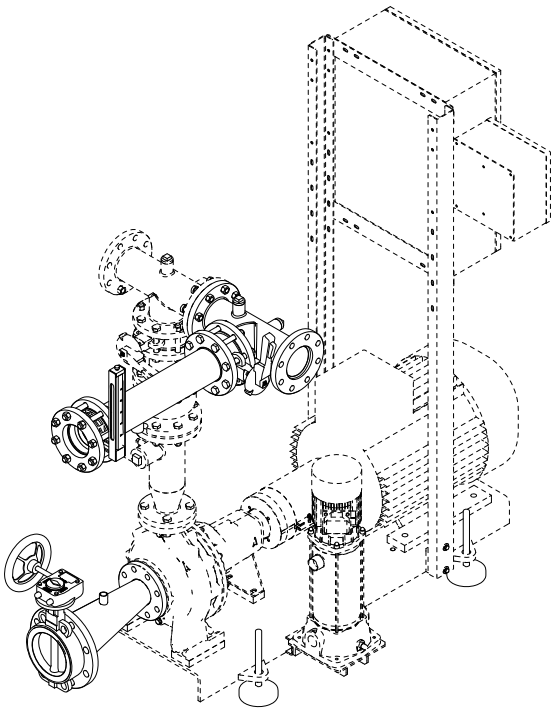
UNI EN 12845 FIRE-FIGHTING PUMP SETS

- - - - - - - - element not supplied in the kit (to be purchased separately)

1 KDN 32 ⟶ DN 50 L = 250 min.
1 KDN 40 ⟶ DN 65 L = 325 min.
1 KDN 50 ⟶ DN 80 L = 400 min.
1 KDN 65 ⟶ DN 100 L = 500 min.
1 KDN 80 ⟶ DN 125 L = 625 min.
1 KDN 100 ⟶ DN 150 L = 750 min.



- - - - - - - - : fire-fighting set



1 KDN

UNI EN 12845 FIRE-FIGHTING PUMP SETS

TECHNICAL DATA

Nominal power input voltage: 230 AC +/- 10%
Phases: 1
Frequency: 50-60 Hz
Sound power level: 75 dB A
Absorption: 0,1 Amp
Battery type: 12 V; 2,3 Ah lead battery (Faston output)
Acoustic alarm autonomy in case of power cut: 20 hours
Characteristic features of the serial communication cable:
2 twisted wire shielded cable plus shield, 600 V, class 1, 15-18 AWG. Maximum impedance 120 ohm, maximum capacity 50 pF/m.
Ambient temperature operation limits: -10 °C + 40 °C
Relative humidity: 50 % at 40 °C MAX (90 % at 20 °C) without condensation
Max. altitude: 2500 m (a.s.l.).
Protection class: IP55
Construction: According to UNI EN 12845

ACCESSORY - CSR-1 ALARM CONTROL PANEL

The UNI EN 12845 standard requires that a range of alarms are forwarded to a permanently manned location, inside or outside the building, or to a plant manager.

In order to fulfil this requirement of the UNI EN 12845 standard, it is possible to use the CSR-1 alarm control panel, which notifies the operating conditions of the fire-fighting pump stations by means of an acoustic signal.
The CSR-1 alarm control unit can be connected to the fire-fighting pump station using multi-conductor cables (contact connection), or using a telephone pair (485 serial type connection), to the electric or Diesel engine-driven pump control panels.
One single CSR-1 can control one or both pumps, electric or Diesel, in the various required configurations.

FUNCTIONS
The control unit controls and notifies, using a 2x16 character display - visually by means of LEDs, and acoustically by means of a buzzer -, the operating conditions of the pump sets in the different installation solutions:

- system for one electric pump,
- system for two electric pumps,
- system for electric pump and Diesel pump,
- system for Diesel pump,
- system for two Diesel pumps.

The CSR-1 is a necessary accessory for the supervision of remote alarms, and guarantees autonomy of at least 20 hours as far as the operation of the alarms in case of power cuts from the electricity network. It is also possible to connect a GSM Modem (optional) in order to display alarms on a mobile phone, receiving system status SMS messages.
It is possible to remotely forward a cumulative signal of all the alarms using one output (XC9) with clean contact (without voltage) with remote silencing.

DIAGRAM FOR SERIAL CONNECTION OF THE CSR-1 TO THE ELECTRIC AND DIESEL PUMP CONTROL PANELS

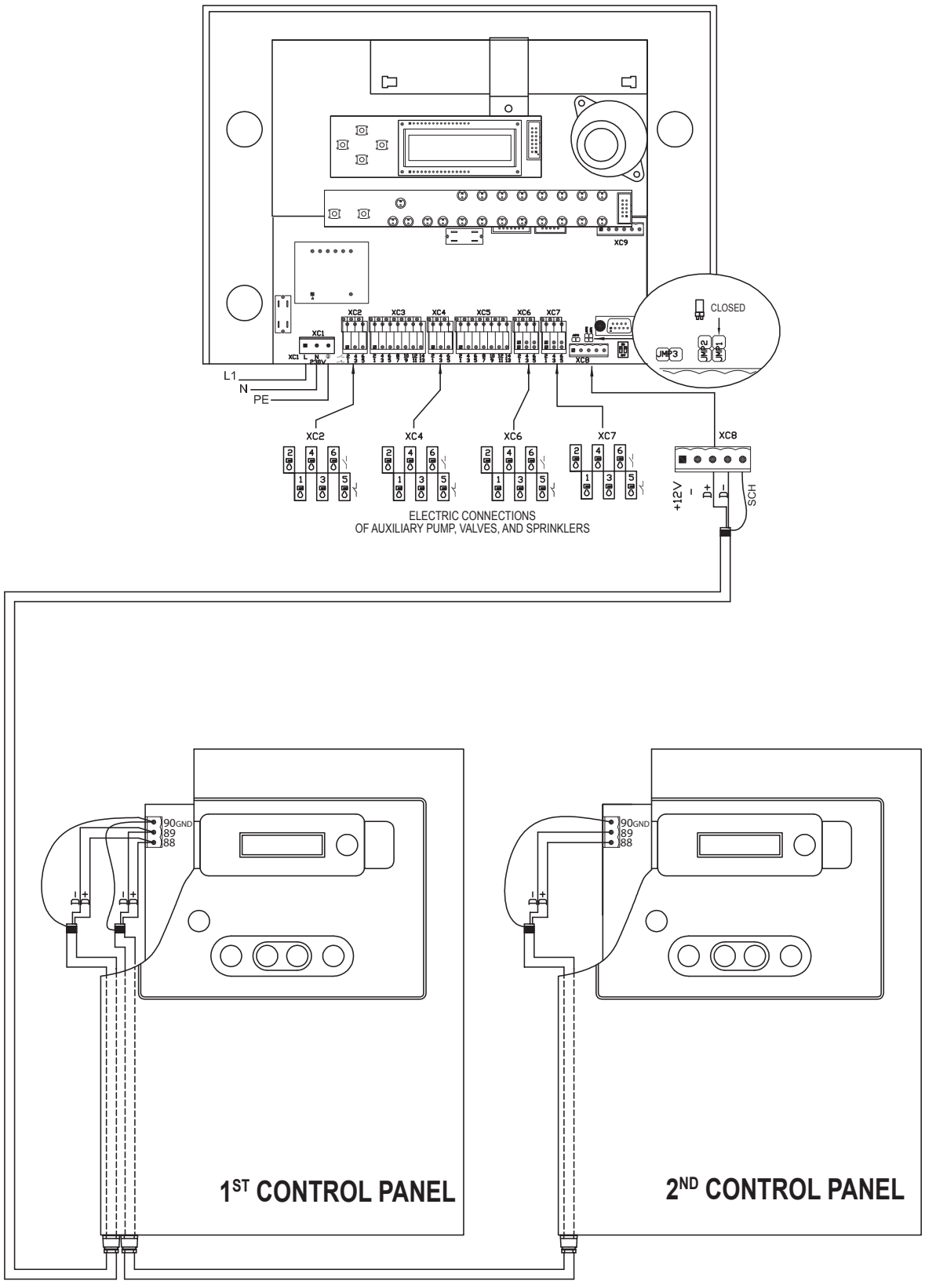
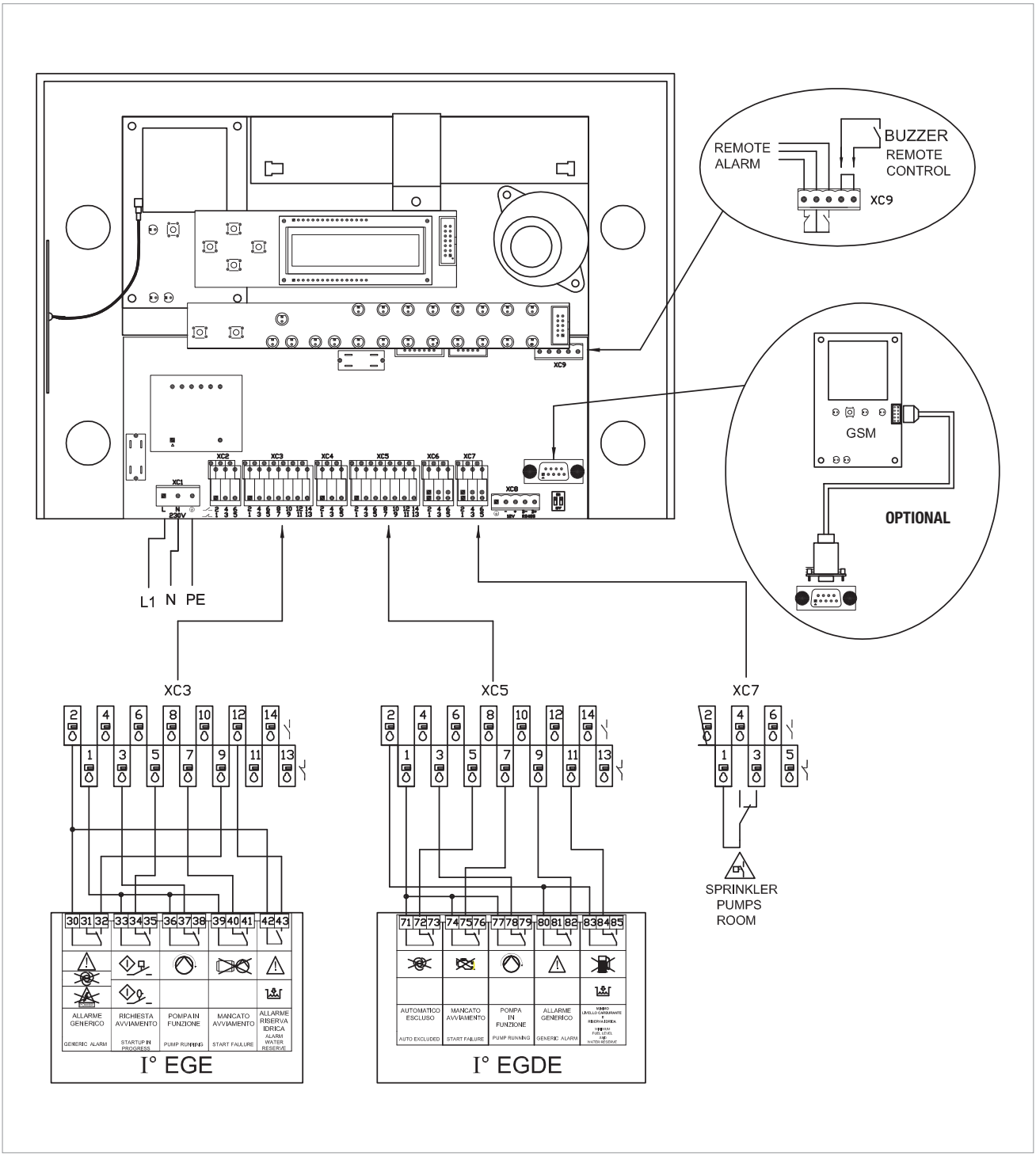


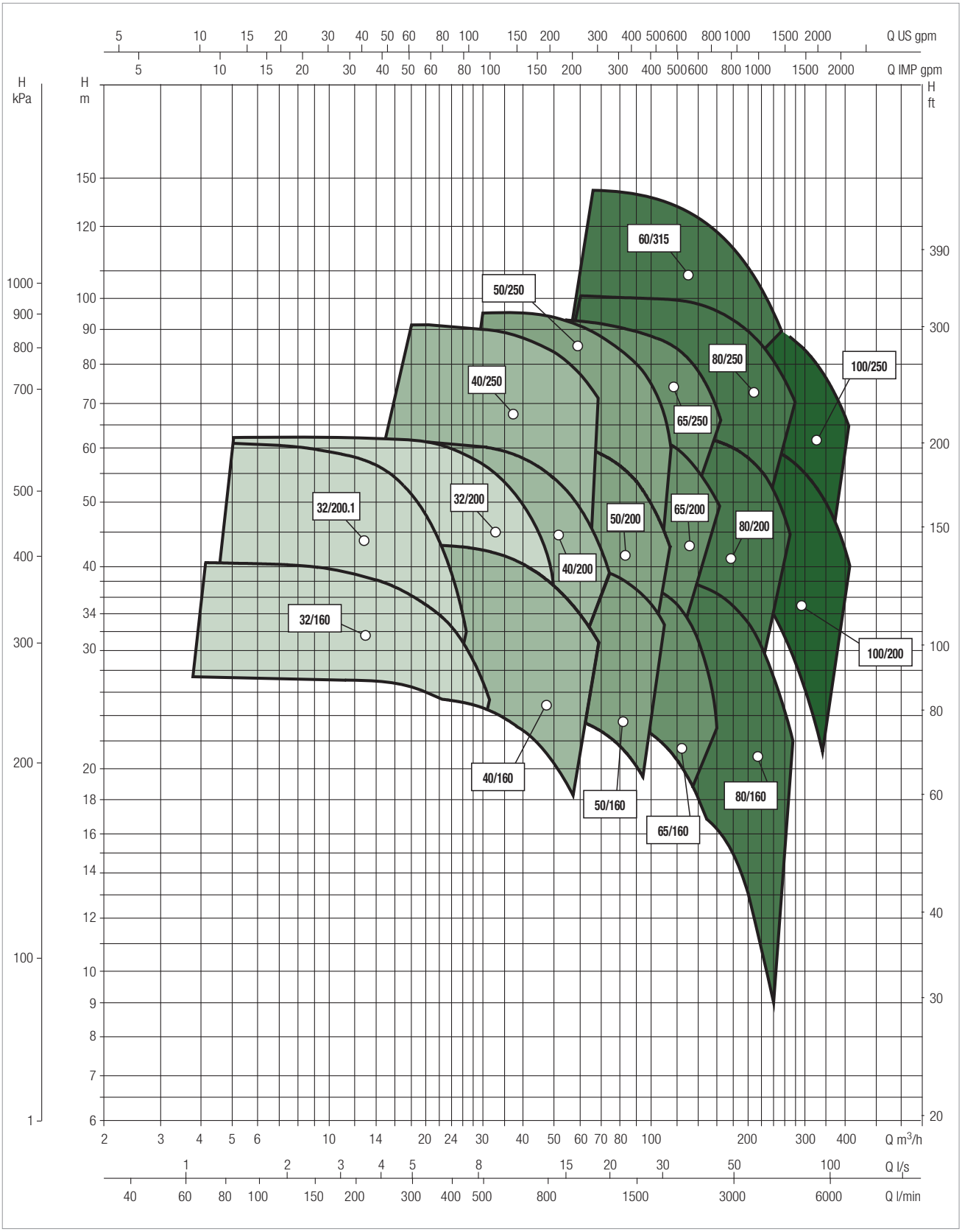
DIAGRAM FOR CONTACT CONNECTION OF THE CSR-1 TO THE ELECTRIC AND DIESEL PUMP CONTROL PANELS



PERFORMANCE RANGE

The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

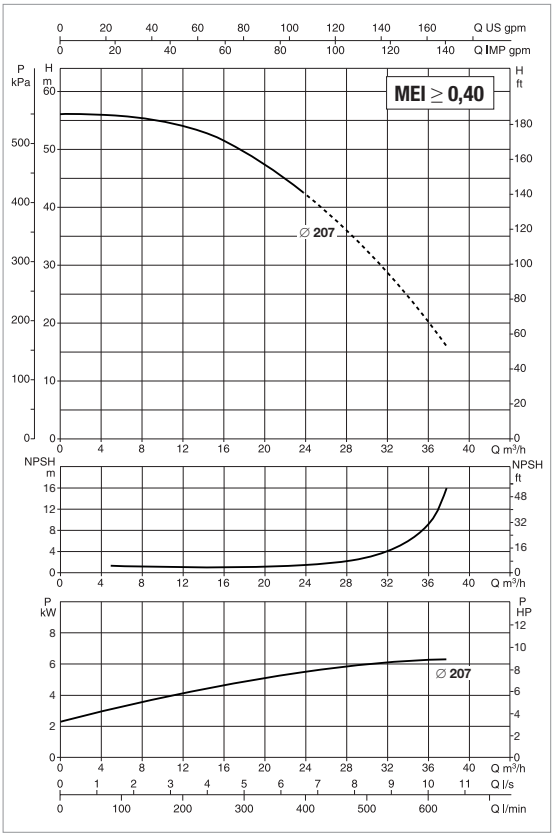
GRAPHIC SELECTION TABLE



For higher performances contact our sales team

1 KDN 32-200.1/207- UNI EN 12845 FIRE-FIGHTING PUMP SETS

Pumped liquid temperature range: from -15 °C to +70 °C - Maximum ambient temperature: from +4 °C to +40 °C - Maximum flow rate: = 26 m^3/h



KDN UNI EN 12845 ELECTRIC PUMP

MODEL	POWER INPUT	JOCKEY PUMP*	P2 MAIN PUMP		P2 JOCKEY PUMP		METER KIT
			kW	HP	kW	HP	
1 KDN 32-200.1/207 7,5	3x400 V ~	JET 251 T	7,5	10	1,85	2,5	KDN 32 EN 12845

KDN UNI EN 12845 DIESEL ENGINE-DRIVEN PUMP

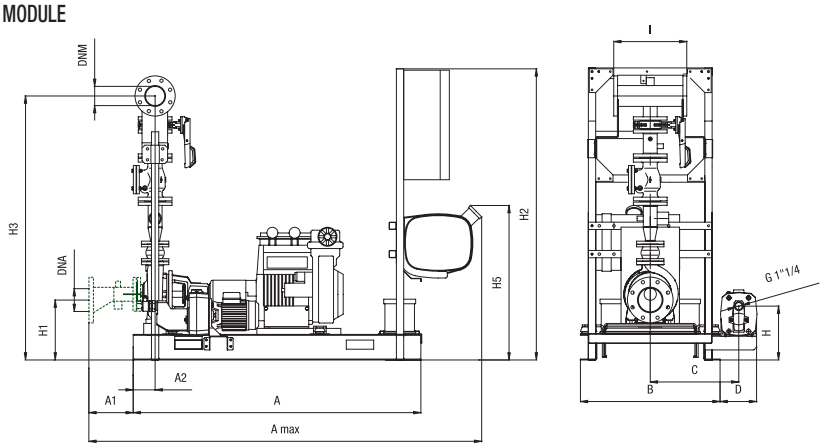
MODEL	BATTERY CHARGER POWER INPUT	JOCKEY PUMP*	** P2 DIESEL ENGINE-DRIVEN PUMP		P2 JOCKEY PUMP		METER KIT	FAN SURFACE
			kW	HP	kW	HP		
1 KDN 32-200.1/207 MD	1x220-240 V ~	JET 251 T	11	15	1,85	2,5	KDN 32 EN 12845	0,22 m^2

* Jockey pump on request.

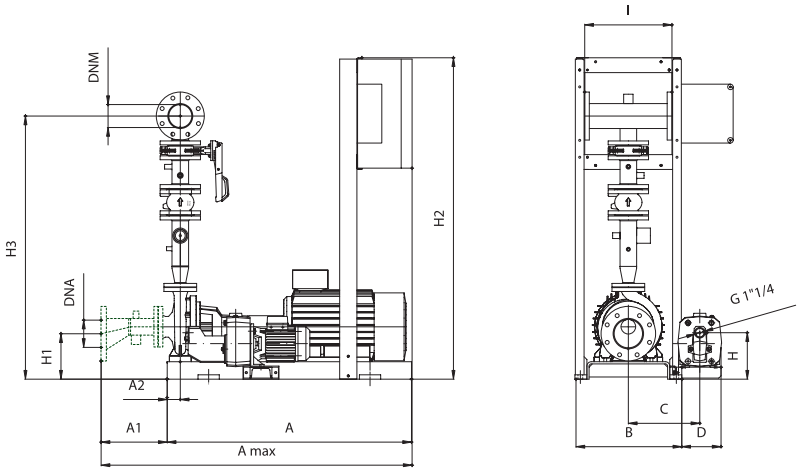
** ISO 3046 continuous power The motor is capable of delivering 10 % more of the power requested by the pump.

The performance curves are based on kinematic viscosity values = 1 mm^2/s and density equal to 1000 kg/m^3. Curve tolerance according to ISO 9906.

DIESEL ENGINE-DRIVEN PUMP MODULE



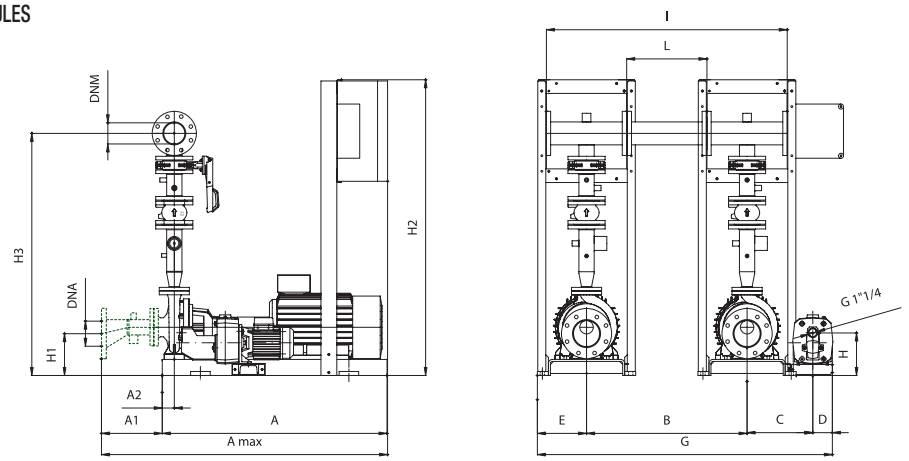
ELECTRIC PUMP MODULE



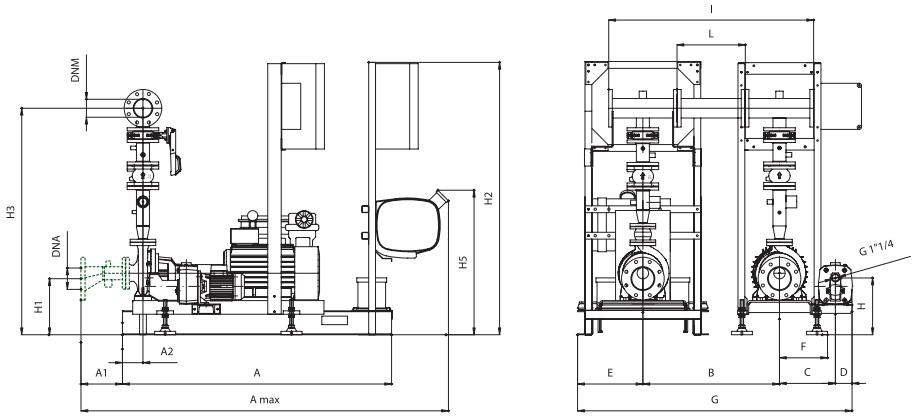
The dashed components are not included in the standard supply.

1 KDN 32-200.1/207 - UNI EN 12845 FIRE-FIGHTING PUMP SETS

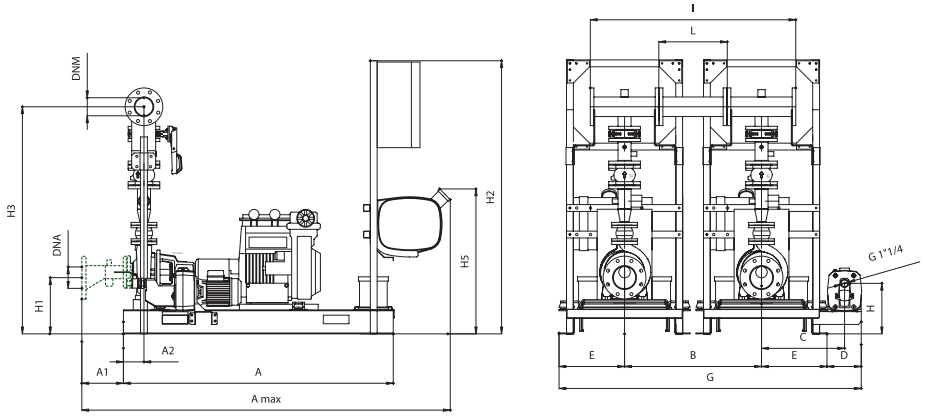
2 ELECTRIC PUMP MODULES



ELECTRIC PUMP + DIESEL ENGINE-DRIVEN PUMP MODULE



2 DIESEL ENGINE-DRIVEN PUMP MODULES

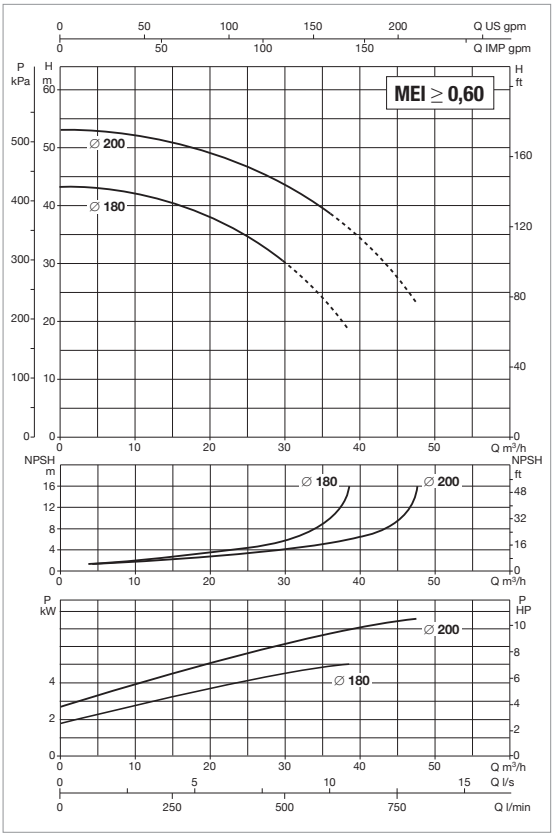


The dashed components are not included in the standard supply.

MODEL	A	A max	A1	A2	B	C	D	E	F	G	H	H1	H2	H3	H5	I	L	DNA	DNM	WEIGHT without jockey pump kg	WEIGHT with jockey pump kg
1 KDN 32-200.1/207 - DIESEL ENGINE DRIVEN PUMP MODULE	1576	2110	200	120	795	485	200	-	-	-	295	323	1600	1232	846	400	-	80	2"	520	550
1 KDN 32-200.1/207 - ELECTRIC PUMP MODULE	1000	1280	257	60	450	307	180	-	-	-	223	195	1475	1132	-	400	-	80	2"	320	350
1 KDN 32-200.1/207 - 2 ELECTRIC PUMP MODULES	1000	1280	257	60	800	307	100	225	-	1432	220	223	1475	1132	-	1200	400	80	2"	320	350
1 KDN 32-200.1/207 - ELECTRIC PUMP + DIESEL ENGINE DRIVEN PUMP MODULE	1576	2110	200	120	800	307	100	383	262	1590	320	323	1600	1232	846	1200	400	80	2"	520	350
1 KDN 32-200.1/207 - 2 DIESEL ENGINE DRIVEN PUMP MODULES	1576	2110	200	120	800	485	200	383	-	1766	295	323	1600	1232	846	1200	400	80	2"	520	550

1 KDN 32-200/180-200 - UNI EN 12845 FIRE-FIGHTING PUMP SETS

Pumped liquid temperature range: from -15 °C to +70 °C - Maximum ambient temperature: from +4 °C to +40 °C - Maximum flow rate: = 48 m^3/h



KDN UNI EN 12845 ELECTRIC PUMP

MODEL	POWER INPUT	JOCKEY PUMP*	P2 MAIN PUMP		P2 JOCKEY PUMP		METER KIT
			kW	HP	kW	HP	
1 KDN 32-200/180 5,5	3x400 V ~	JET 251 T	5,5	7,5	1,85	2,5	KDN 32 EN 12845
1 KDN 32-200/200 7,5	3x400 V ~	JET 251 T	7,5	10	1,85	2,5	KDN 32 EN 12845

KDN UNI EN 12845 DIESEL ENGINE-DRIVEN PUMP

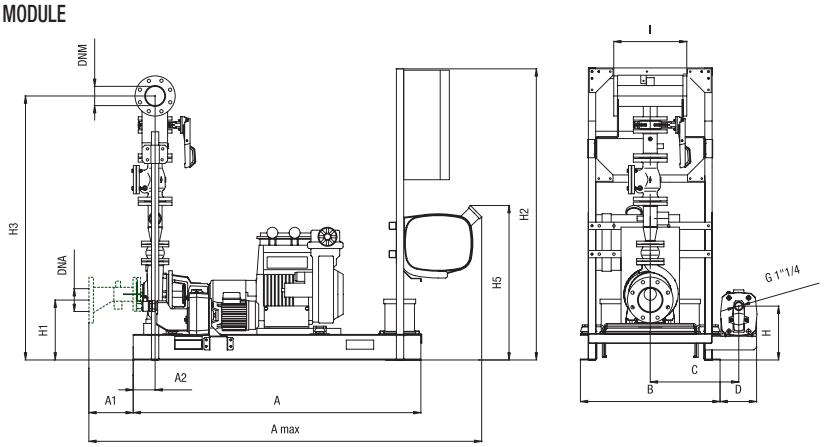
MODEL	BATTERY CHARGER POWER INPUT	JOCKEY PUMP*	** P2 DIESEL ENGINE-DRIVEN PUMP		P2 JOCKEY PUMP		METER KIT	FAN SURFACE
			kW	HP	kW	HP		
1 KDN 32-200/180 MD	1x220-240 V ~	JET 251 T	11	15	1,85	2,5	KDN 32 EN 12845	0,22 m^2
1 KDN 32-200/200 MD	1x220-240 V ~	JET 251 T	11	15	1,85	2,5	KDN 32 EN 12845	0,22 m^2

* Jockey pump on request.

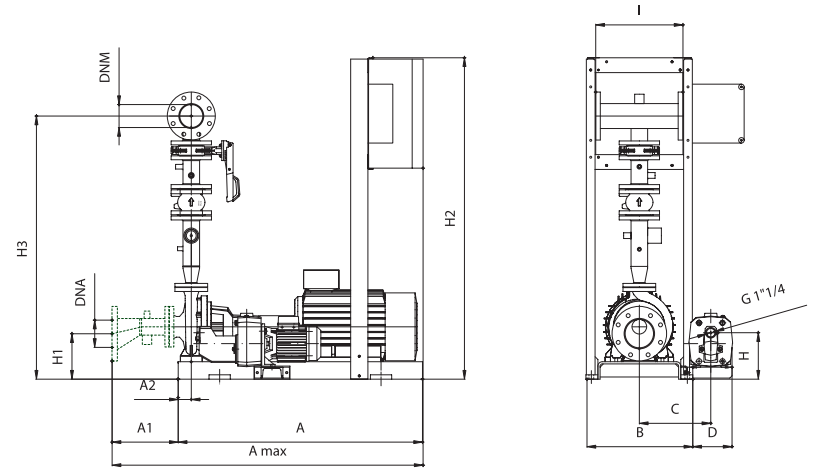
** ISO 3046 continuous power The motor is capable of delivering 10 % more of the power requested by the pump.

The performance curves are based on kinematic viscosity values = 1 mm^2/s and density equal to 1000 kg/m^3. Curve tolerance according to ISO 9906.

DIESEL ENGINE-DRIVEN PUMP MODULE



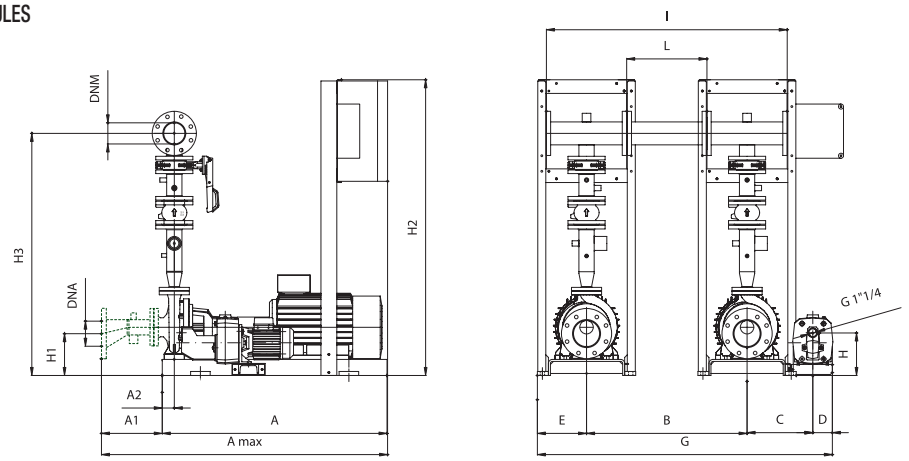
ELECTRIC PUMP MODULE



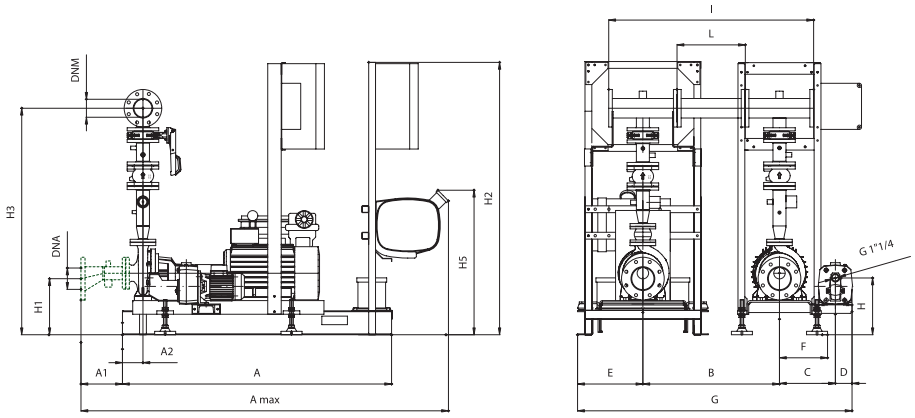
The dashed components are not included in the standard supply.

1 KDN 32-200/180-200 - UNI EN 12845 FIRE-FIGHTING PUMP SETS

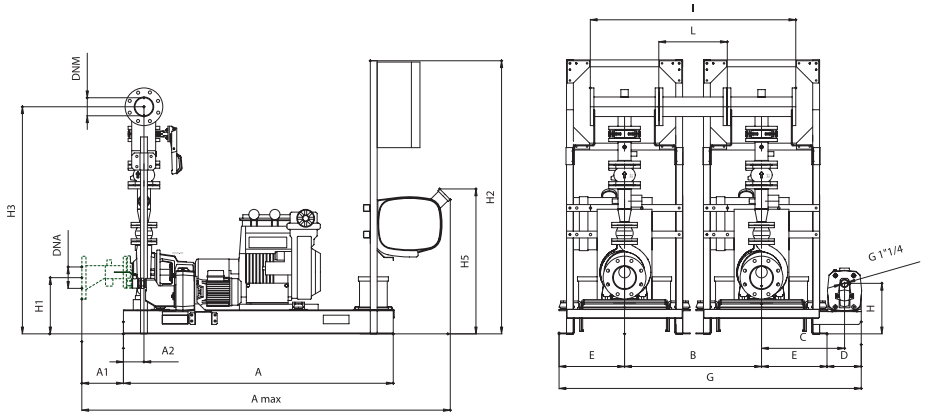
2 ELECTRIC PUMP MODULES



ELECTRIC PUMP + DIESEL ENGINE-DRIVEN PUMP MODULE



2 DIESEL ENGINE-DRIVEN PUMP MODULES

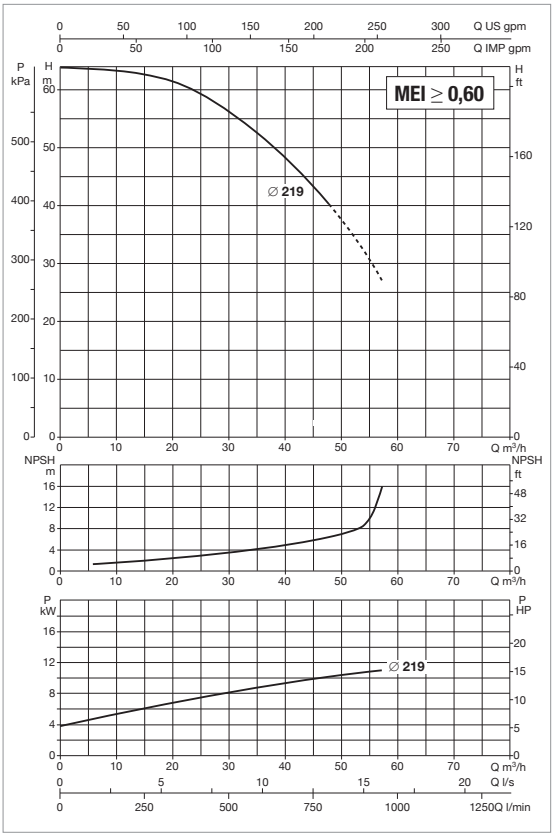


The dashed components are not included in the standard supply.

MODEL	A	A max	A1	A2	B	C	D	E	F	G	H	H1	H2	H3	H5	I	L	DNA	DNM	WEIGHT without jockey pump kg	WEIGHT with jockey pump kg
1 KDN 32-200/180-200 - DIESEL ENGINE-DRIVEN PUMP MODULE	1576	2110	200	120	795	485	200	-	-	-	295	323	1600	1232	846	400	-	80	2"	520	550
1 KDN 32-200/180-200 - ELECTRIC PUMP MODULE	1000	1280	257	60	450	307	180	-	-	-	223	195	1475	1132	-	400	-	80	2"	320	350
1 KDN 32-200/180-200 - 2 ELECTRIC PUMP MODULES	1000	1280	257	60	800	307	100	225	-	1432	220	223	1475	1132	-	1200	400	80	2"	320	350
1 KDN 32-200/180-200 - ELECTRIC PUMP + DIESEL ENGINE DRIVEN PUMP MODULE	1576	2110	200	120	800	307	100	383	262	1590	320	323	1600	1232	846	1200	400	80	2"	520	350
1 KDN 32-200/180-200 - 2 DIESEL ENGINE DRIVEN PUMP MODULES	1576	2110	200	120	800	485	200	383	-	1766	295	323	1600	1232	846	1200	400	80	2"	520	550

1 KDN 32-200/219 - UNI EN 12845 FIRE-FIGHTING PUMP SETS

Pumped liquid temperature range: from -15 °C to +70 °C - **Maximum ambient temperature:** from +4 °C to +40 °C - **Maximum flow rate:** = 48 m^3/h



KDN UNI EN 12845 ELECTRIC PUMP

MODEL	POWER INPUT	JOCKEY PUMP*	P2 MAIN PUMP		P2 JOCKEY PUMP		METER KIT
			kW	HP	kW	HP	
1 KDN 32-200/219 11	3x400 V ~	JET 251 T	11	15	1,85	2,5	KDN 32 EN 12845

KDN UNI EN 12845 DIESEL ENGINE-DRIVEN PUMP

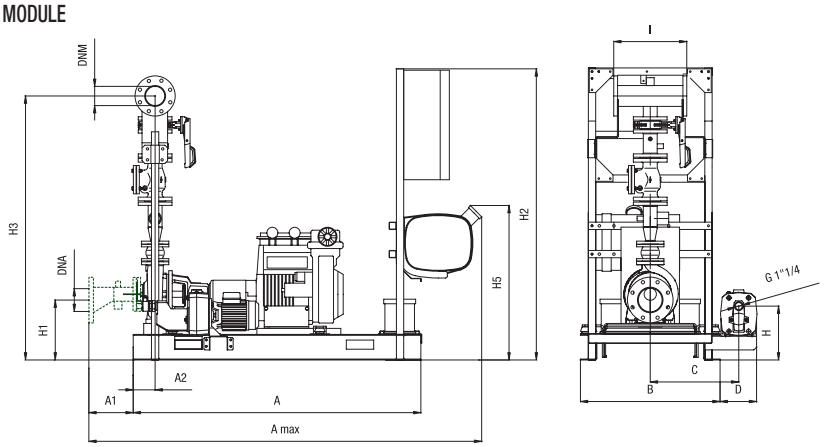
MODEL	BATTERY CHARGER POWER INPUT	JOCKEY PUMP*	** P2 DIESEL ENGINE-DRIVEN PUMP		P2 JOCKEY PUMP		METER KIT	FAN SURFACE
			kW	HP	kW	HP		
1 KDN 32-200/219 MD	1x220-240 V ~	JET 251 T	11	15	1,85	2,5	KDN 32 EN 12845	0,22 m^2

* Jockey pump on request.

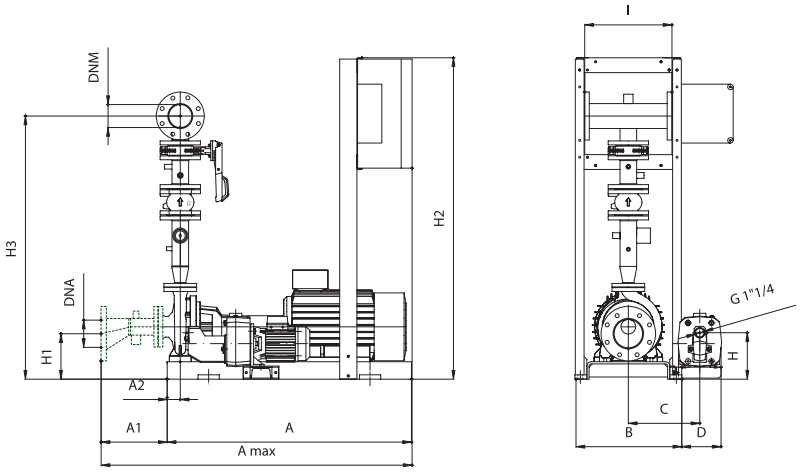
** ISO 3046 continuous power The motor is capable of delivering 10 % more of the power requested by the pump.

The performance curves are based on kinematic viscosity values = 1 mm^2/s and density equal to 1000 kg/m^3. Curve tolerance according to ISO 9906.

DIESEL ENGINE-DRIVEN PUMP MODULE



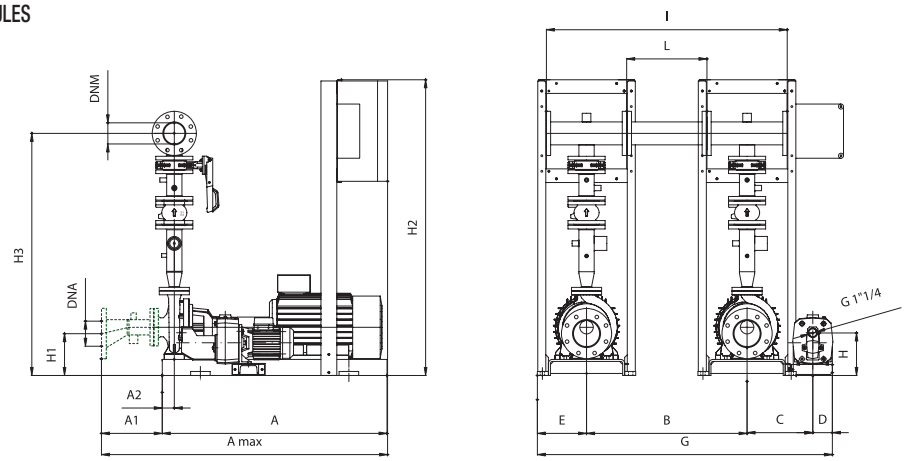
ELECTRIC PUMP MODULE



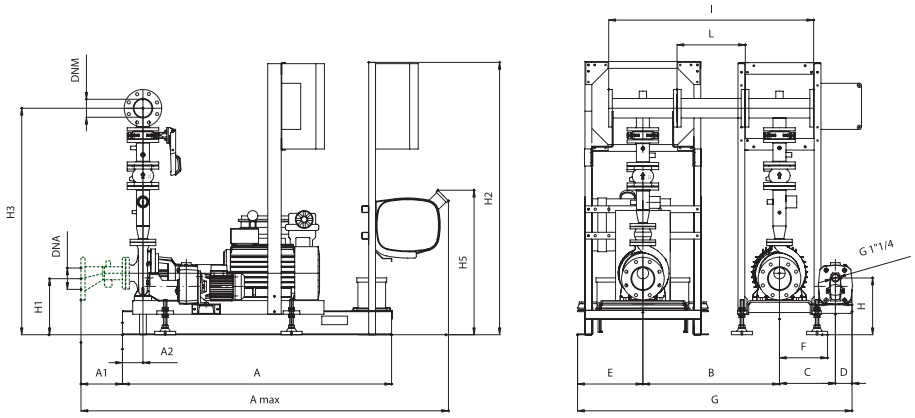
The dashed components are not included in the standard supply.

1 KDN 32-200/219 - UNI EN 12845 FIRE-FIGHTING PUMP SETS

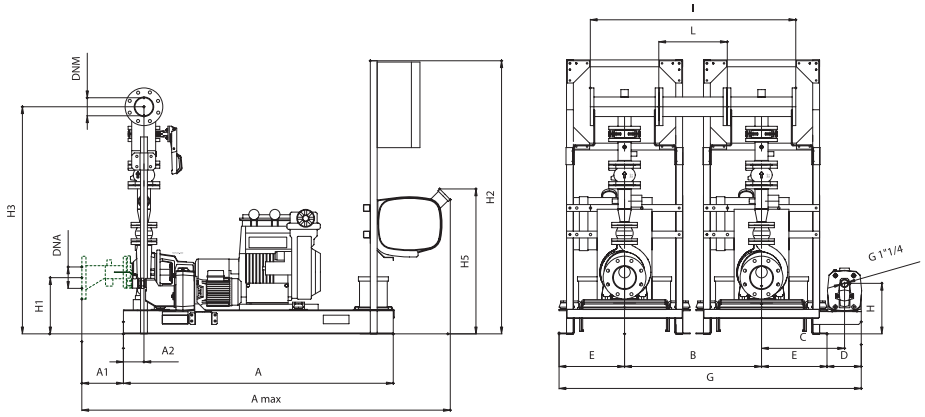
2 ELECTRIC PUMP MODULES



ELECTRIC PUMP + DIESEL ENGINE-DRIVEN PUMP MODULE



2 DIESEL ENGINE-DRIVEN PUMP MODULES

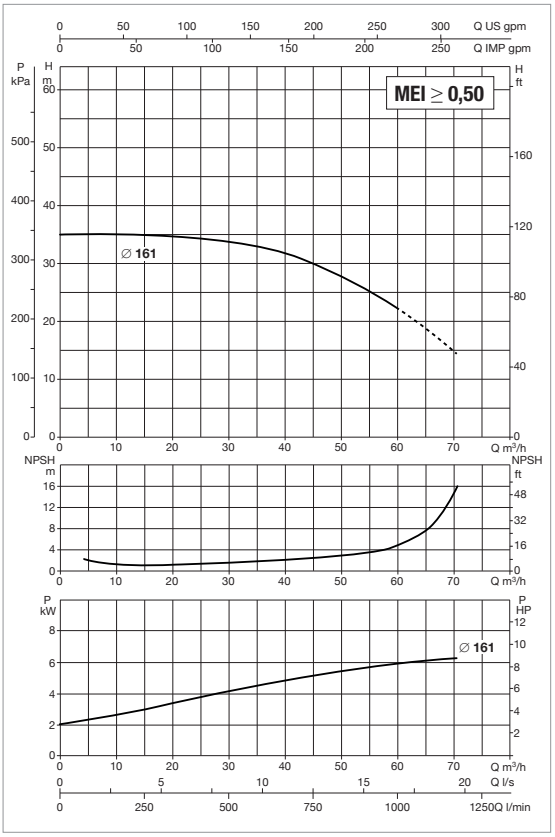


The dashed components are not included in the standard supply.

MODEL	A	A max	A1	A2	B	C	D	E	F	G	H	H1	H2	H3	H5	I	L	DNA	DNM	WEIGHT without jockey pump kg	WEIGHT with jockey pump kg
1 KDN 32-200/219 - DIESEL ENGINE DRIVEN PUMP MODULE	1576	2110	200	120	795	485	200	-	-	-	295	323	1600	1232	846	400	-	80	2"	520	550
1 KDN 32-200/219 - ELECTRIC PUMP MODULE	1120	1380	257	60	490	327	180	-	-	-	220	223	1475	1132	-	400	-	80	2"	350	380
1 KDN 32-200/219 - 2 ELECTRIC PUMP MODULES	1120	1380	257	60	800	327	100	245	-	1472	220	223	1475	1132	-	1200	400	80	2"	350	380
1 KDN 32-200/219 - ELECTRIC PUMP + DIESEL ENGINE DRIVEN PUMP MODULE	1576	2110	200	120	800	307	100	383	262	1590	320	323	1600	1232	846	1200	400	80	2"	520	350
1 KDN 32-200/219 - 2 DIESEL ENGINE DRIVEN PUMP MODULES	1576	2110	200	120	800	485	200	383	-	1766	295	323	1600	1232	846	1200	400	80	2"	520	550

1 KDN 40-160/161 - UNI EN 12845 FIRE-FIGHTING PUMP SETS

Pumped liquid temperature range: from -15 °C to +70 °C - Maximum ambient temperature: from +4 °C to +40 °C - Maximum flow rate: = 70 m^3/h



KDN UNI EN 12845 ELECTRIC PUMP

MODEL	POWER INPUT	JOCKEY PUMP*	P2 MAIN PUMP		P2 JOCKEY PUMP		METER KIT
			kW	HP	kW	HP	
1 KDN 40-160/161 7,5	3x400 V ~	JET 251 T	7,5	10	1,85	2,5	KDN 40 EN 12845

KDN UNI EN 12845 DIESEL ENGINE-DRIVEN PUMP

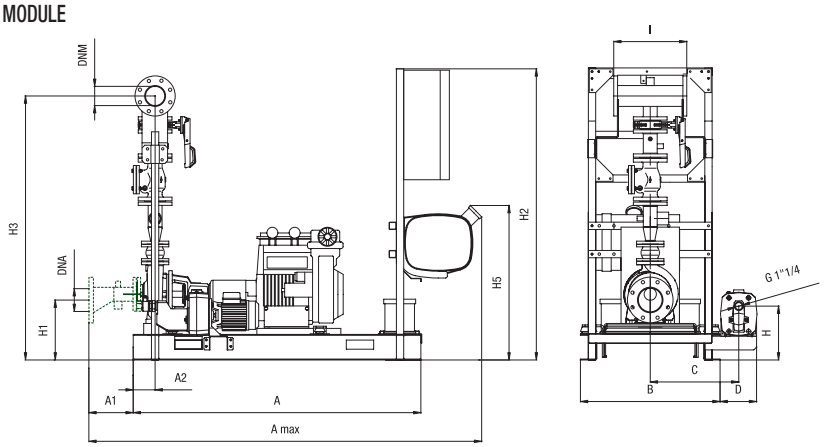
MODEL	BATTERY CHARGER POWER INPUT	JOCKEY PUMP*	** P2 DIESEL ENGINE-DRIVEN PUMP		P2 JOCKEY PUMP		METER KIT	FAN SURFACE
			kW	HP	kW	HP		
1 KDN 40-160/161 MD	1x220-240 V ~	JET 251 T	11	15	1,85	2,5	KDN 40 EN 12845	0,22 m^2

* Jockey pump on request.

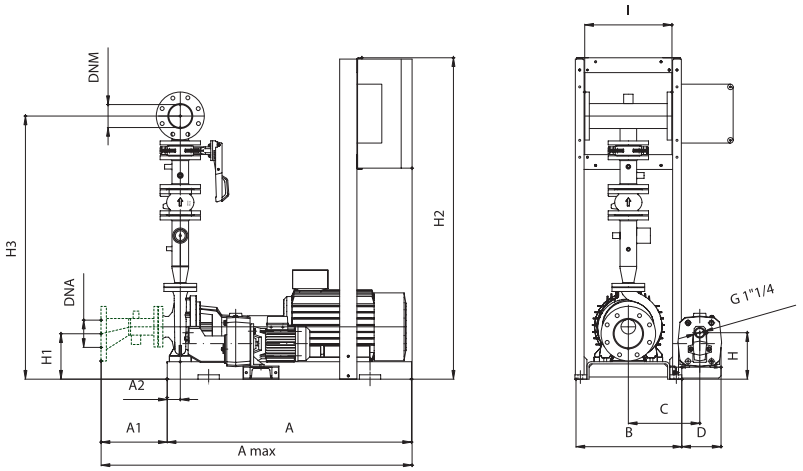
** ISO 3046 continuous power The motor is capable of delivering 10 % more of the power requested by the pump.

The performance curves are based on kinematic viscosity values = 1 mm^2/s and density equal to 1000 kg/m^3. Curve tolerance according to ISO 9906.

DIESEL ENGINE-DRIVEN PUMP MODULE



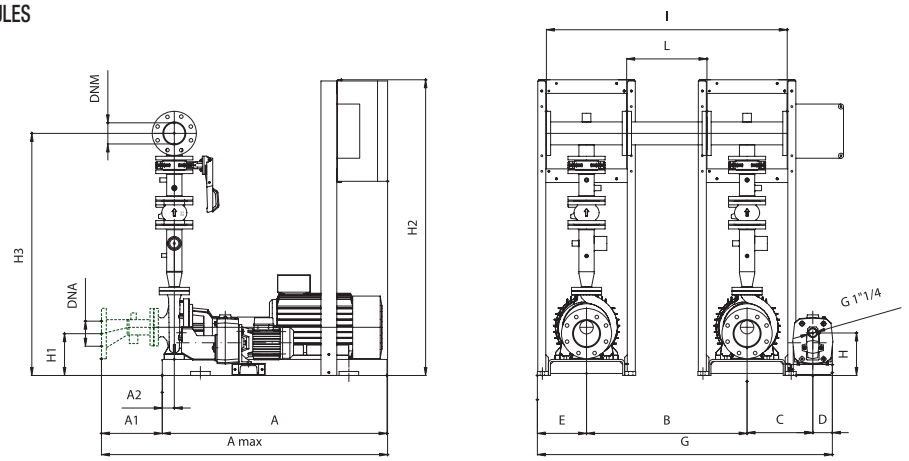
ELECTRIC PUMP MODULE



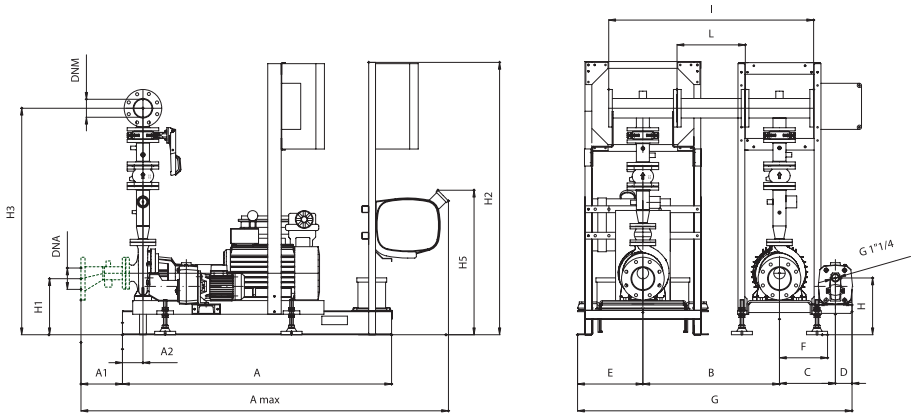
The dashed components are not included in the standard supply.

1 KDN 40-160/161 - UNI EN 12845 FIRE-FIGHTING PUMP SETS

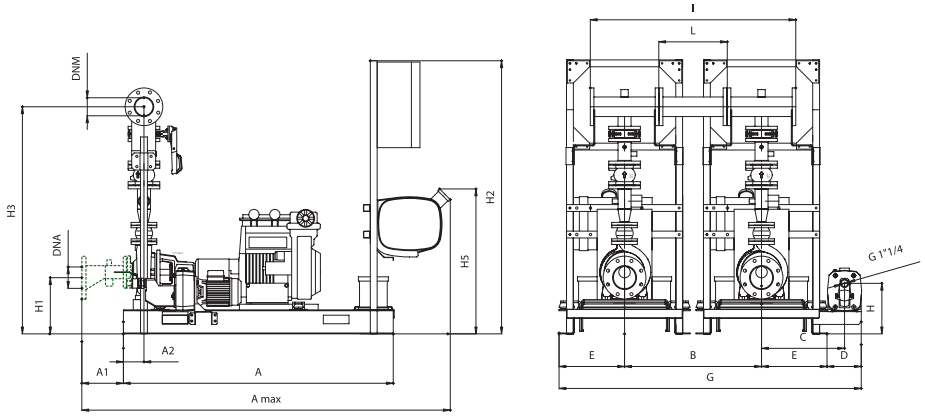
2 ELECTRIC PUMP MODULES



ELECTRIC PUMP + DIESEL ENGINE-DRIVEN PUMP MODULE



2 DIESEL ENGINE-DRIVEN PUMP MODULES

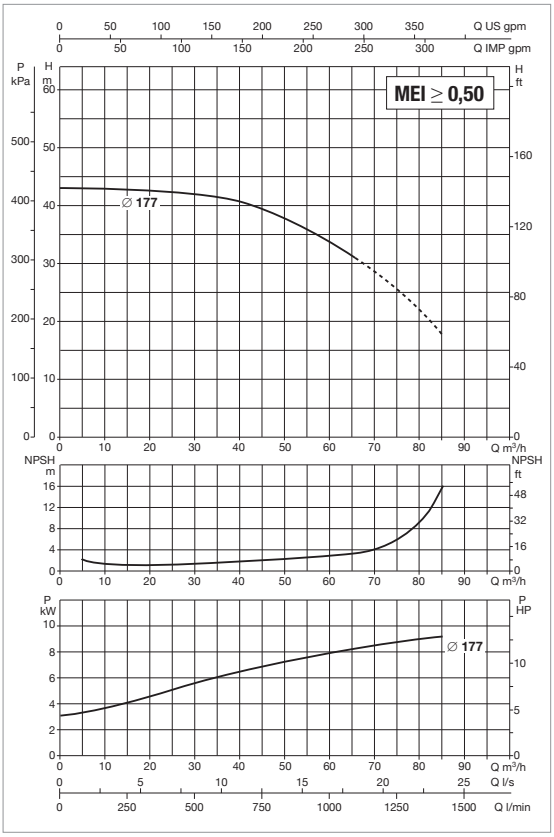


The dashed components are not included in the standard supply.

MODEL	A	A max	A1	A2	B	C	D	E	F	G	H	H1	H2	H3	H5	I	L	DNA	DNM	WEIGHT without jockey pump kg	WEIGHT with jockey pump kg
1 KDN 40-160/161 - DIESEL ENGINE DRIVEN PUMP MODULE	1576	2135	225	120	795	485	200	-	-	-	295	315	1600	1142	846	400	-	100	2" 1/2	570	600
1 KDN 40-160/161 - ELECTRIC PUMP MODULE	1000	1306	283	60	450	307	180	-	-	-	220	195	1475	1142	-	400	-	100	2" 1/2	310	340
1 KDN 40-160/161 - 2 ELECTRIC PUMP MODULES	1000	1306	283	60	800	307	100	225	-	1432	220	195	1475	1142	-	1200	400	100	2" 1/2	310	340
1 KDN 40-160/161 - ELECTRIC PUMP + DIESEL ENGINE DRIVEN PUMP MODULE	1576	2135	225	120	800	307	100	383	262	1590	340	315	1600	1262	846	1200	400	100	2" 1/2	570	340
1 KDN 40-160/161 - 2 DIESEL ENGINE DRIVEN PUMP MODULES	1576	2135	225	120	800	485	200	383	-	1766	295	315	1600	1262	846	1200	400	100	2" 1/2	570	600

1 KDN 40-160/177 - UNI EN 12845 FIRE-FIGHTING PUMP SETS

Pumped liquid temperature range: from -15 °C to +70 °C - Maximum ambient temperature: from +4 °C to +40 °C - Maximum flow rate: = 70 m^3/h



KDN UNI EN 12845 ELECTRIC PUMP

MODEL	POWER INPUT	JOCKEY PUMP*	P2 MAIN PUMP		P2 JOCKEY PUMP		METER KIT
			kW	HP	kW	HP	
1 KDN 40-160/177 11	3x400 V ~	JET 251 T	11	15	1,85	2,5	KDN 40 EN 12845

KDN UNI EN 12845 DIESEL ENGINE-DRIVEN PUMP

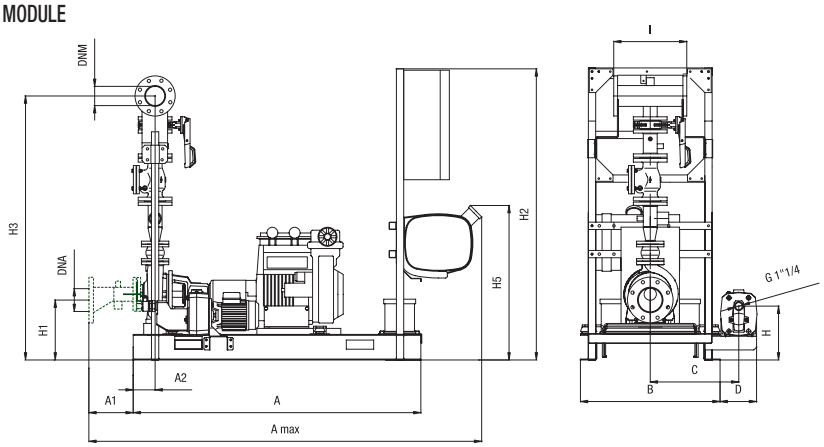
MODEL	BATTERY CHARGER POWER INPUT	JOCKEY PUMP*	** P2 DIESEL ENGINE-DRIVEN PUMP		P2 JOCKEY PUMP		METER KIT	FAN SURFACE
			kW	HP	kW	HP		
1 KDN 40-160/177 MD	1x220-240 V ~	JET 251 T	11	15	1,85	2,5	KDN 40 EN 12845	0,22 m^2

* Jockey pump on request.

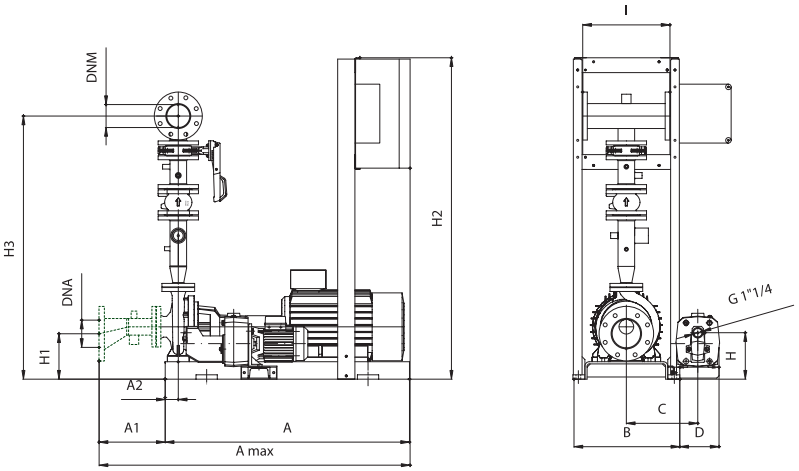
** ISO 3046 continuous power The motor is capable of delivering 10 % more of the power requested by the pump.

The performance curves are based on kinematic viscosity values = 1 mm^2/s and density equal to 1000 kg/m^3. Curve tolerance according to ISO 9906.

DIESEL ENGINE-DRIVEN PUMP MODULE



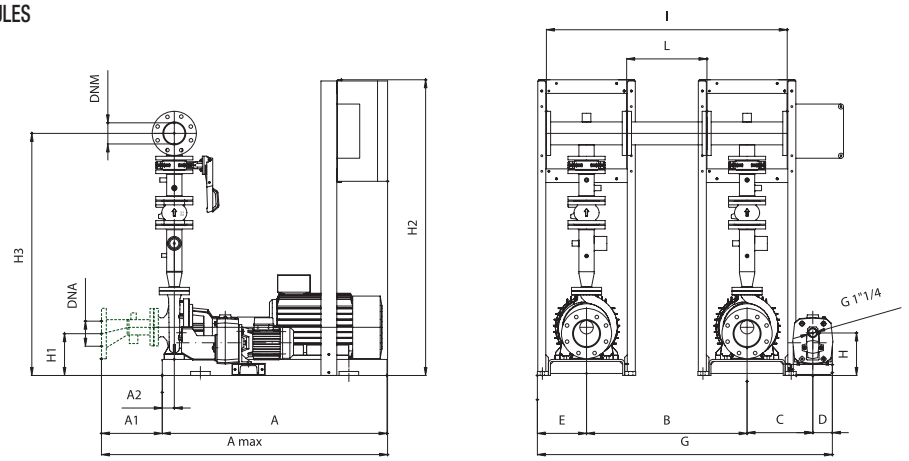
ELECTRIC PUMP MODULE



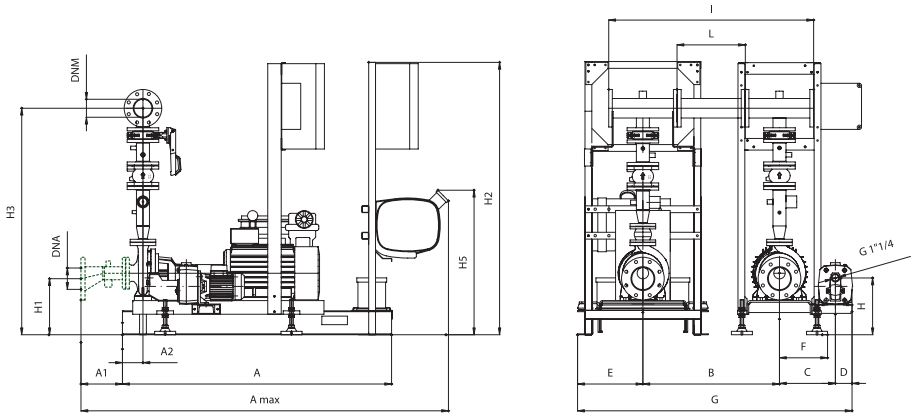
The dashed components are not included in the standard supply.

1 KDN 40-160/177 - UNI EN 12845 FIRE-FIGHTING PUMP SETS

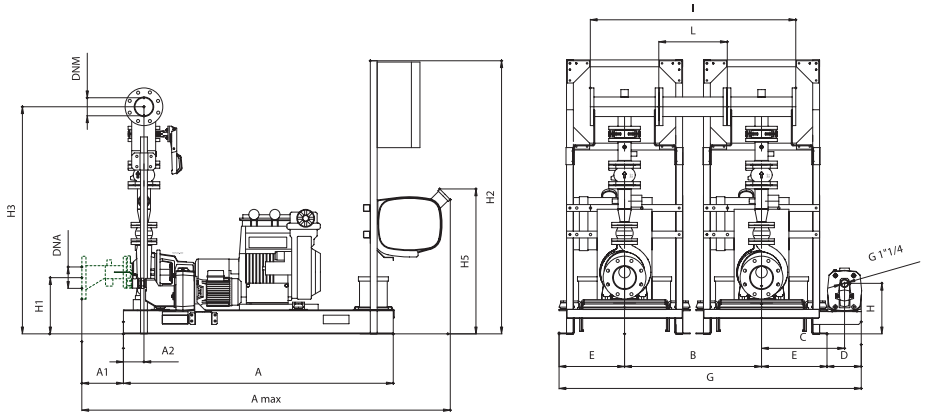
2 ELECTRIC PUMP MODULES



ELECTRIC PUMP + DIESEL ENGINE-DRIVEN PUMP MODULE



2 DIESEL ENGINE-DRIVEN PUMP MODULES

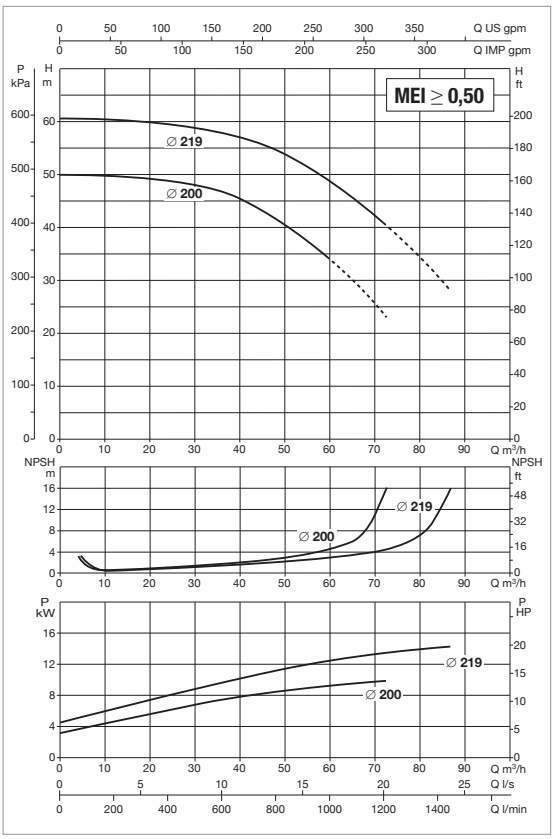


The dashed components are not included in the standard supply.

MODEL	A	A max	A1	A2	B	C	D	E	F	G	H	H1	H2	H3	H5	I	L	DNA	DNM	WEIGHT without jockey pump kg	WEIGHT with jockey pump kg
1 KDN 40-160/177 - DIESEL ENGINE DRIVEN PUMP MODULE	1576	2135	225	120	795	485	200	-	-	-	295	315	1600	1142	846	400	-	100	2" 1/2	570	600
1 KDN 40-160/177 - ELECTRIC PUMP MODULE	1120	1406	283	60	490	327	180	-	-	-	220	223	1475	1167	-	400	-	100	2" 1/2	320	350
1 KDN 40-160/177 - 2 ELECTRIC PUMP MODULES	1120	1406	283	60	800	327	100	245	-	1472	220	223	1475	1167	-	1200	400	100	2" 1/2	320	350
1 KDN 40-160/177 - ELECTRIC PUMP + DIESEL ENGINE DRIVEN PUMP MODULE	1576	2135	225	120	800	307	100	383	262	1590	340	315	1600	1262	846	1200	400	100	2" 1/2	570	340
1 KDN 40-160/177 - 2 DIESEL ENGINE DRIVEN PUMP MODULES	1576	2135	225	120	800	485	200	383	-	1766	295	315	1600	1262	846	1200	400	100	2" 1/2	570	600

1 KDN 40-200/200-219 - UNI EN 12845 FIRE-FIGHTING PUMP SETS

Pumped liquid temperature range: from -15 °C to +70 °C - Maximum ambient temperature: from +4 °C to +40 °C - Maximum flow rate: = 70 m^3/h



KDN UNI EN 12845 ELECTRIC PUMP

MODEL	POWER INPUT	JOCKEY PUMP*	P2 MAIN PUMP		P2 JOCKEY PUMP		METER KIT
			kW	HP	kW	HP	
1 KDN 40-200/200 11	3x400 V ~	JET 251 T	11	15	1,85	2,5	KDN 40 EN 12845
1 KDN 40-200/219 15	3x400 V ~	JET 251 T	15	20	1,85	2,5	KDN 40 EN 12845

KDN UNI EN 12845 DIESEL ENGINE-DRIVEN PUMP

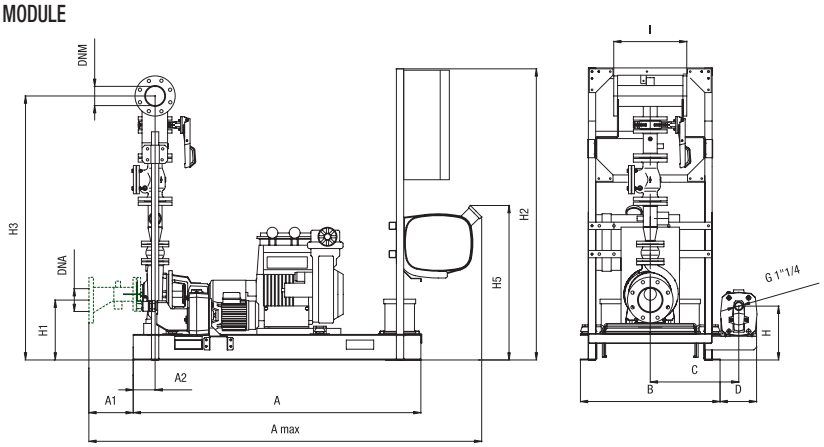
MODEL	BATTERY CHARGER POWER INPUT	JOCKEY PUMP*	** P2 DIESEL ENGINE-DRIVEN PUMP		P2 JOCKEY PUMP		METER KIT	FAN SURFACE
			kW	HP	kW	HP		
1 KDN 40-200/200 MD	1x220-240 V ~	JET 251 T	15	20	1,85	2,5	KDN 40 EN 12845	0,22 m^2
1 KDN 40-200/219 MD	1x220-240 V ~	JET 251 T	15	20	1,85	2,5	KDN 40 EN 12845	0,22 m^2

* Jockey pump on request.

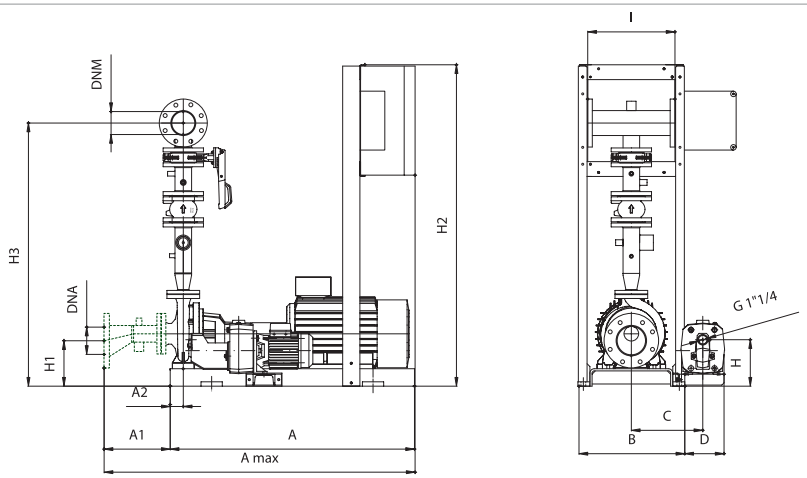
** ISO 3046 continuous power The motor is capable of delivering 10 % more of the power requested by the pump.

The performance curves are based on kinematic viscosity values = 1 mm^2/s and density equal to 1000 kg/m^3. Curve tolerance according to ISO 9906.

DIESEL ENGINE-DRIVEN PUMP MODULE



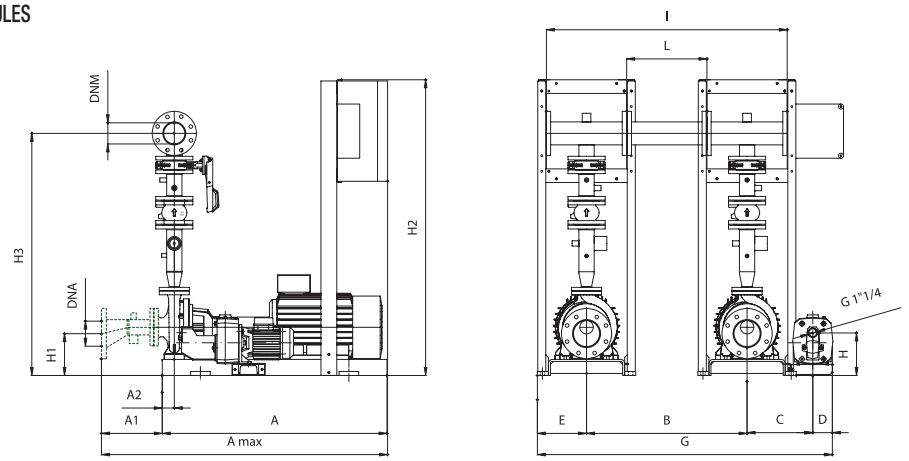
ELECTRIC PUMP MODULE



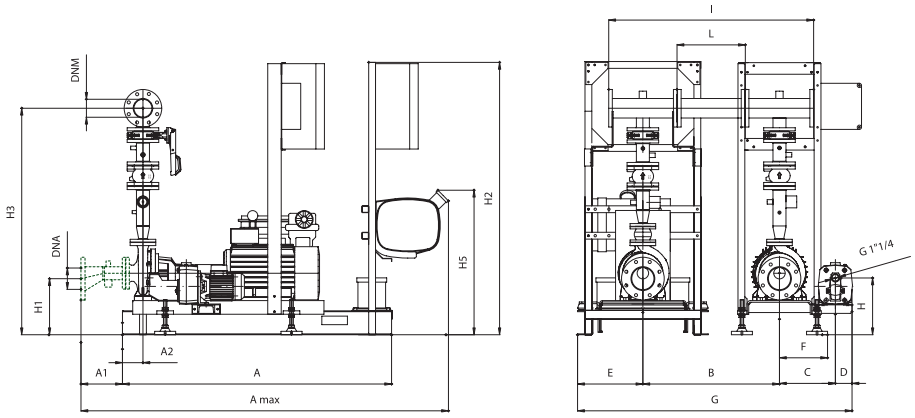
The dashed components are not included in the standard supply.

1 KDN 40-200/200-219 - UNI EN 12845 FIRE-FIGHTING PUMP SETS

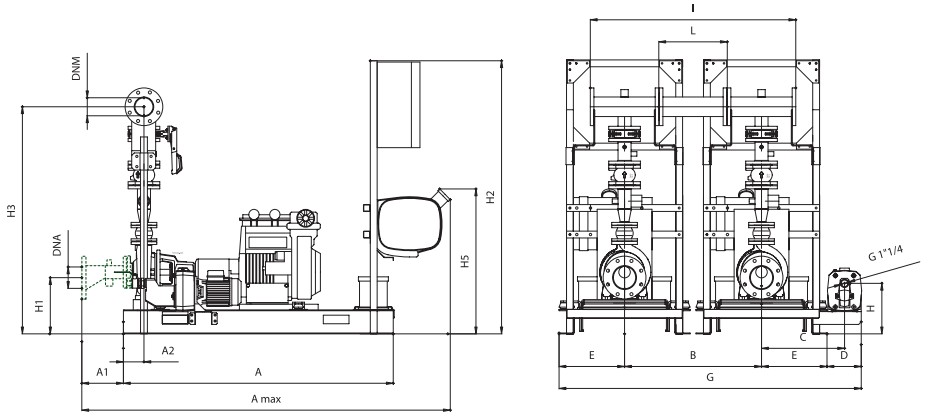
2 ELECTRIC PUMP MODULES



ELECTRIC PUMP + DIESEL ENGINE-DRIVEN PUMP MODULE



2 DIESEL ENGINE-DRIVEN PUMP MODULES

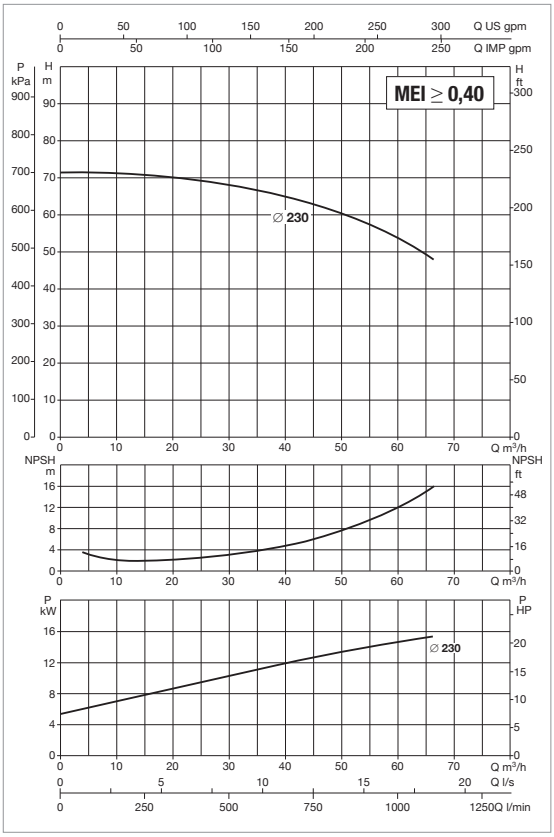


The dashed components are not included in the standard supply.

MODEL	A	A max	A1	A2	B	C	D	E	F	G	H	H1	H2	H3	H5	I	L	DNA	DNM	WEIGHT without jockey pump kg	WEIGHT with jockey pump kg
1 KDN 40-200/200-219 - DIESEL ENGINE-DRIVEN PUMP MODULE	1576	2155	245	120	795	485	200	-	-	-	295	343	1600	1307	846	400	-	100	2" 1/2	590	620
1 KDN 40-200/200-219 - ELECTRIC PUMP MODULE	1120	1426	303	60	490	327	180	-	-	-	220	223	1475	1187	-	400	-	100	2" 1/2	430	450
1 KDN 40-200/200-219 - 2 ELECTRIC PUMP MODULES	1120	1406	303	60	800	327	100	245	-	1472	220	223	1475	1187	-	1200	400	100	2" 1/2	430	450
1 KDN 40-200/200-219 - ELECTRIC PUMP + DIESEL ENGINE DRIVEN PUMP MODULE	1576	2155	245	120	800	327	100	383	282	1610	340	343	1600	1307	846	1200	400	100	2" 1/2	590	350
1 KDN 40-200/200-219 - 2 DIESEL ENGINE DRIVEN PUMP MODULES	1576	2155	245	120	800	485	200	383	-	1766	295	343	1600	1307	846	1200	400	100	2" 1/2	590	620

1 KDN 40-250/230 - UNI EN 12845 FIRE-FIGHTING PUMP SETS

Pumped liquid temperature range: from -15 °C to +70 °C - Maximum ambient temperature: from +4 °C to +40 °C - Maximum flow rate: = 70 m^3/h



KDN UNI EN 12845 ELECTRIC PUMP

MODEL	POWER INPUT	JOCKEY PUMP*	P2 MAIN PUMP		P2 JOCKEY PUMP		METER KIT
			kW	HP	kW	HP	
1 KDN 40-250/230 15	3x400 V ~	JET 251 T	15	20	1,85	2,5	KDN 40 EN 12845

KDN UNI EN 12845 DIESEL ENGINE-DRIVEN PUMP

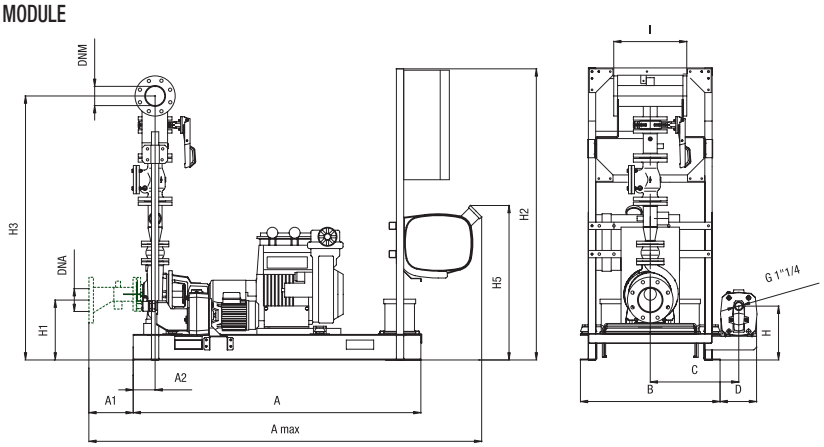
MODEL	BATTERY CHARGER POWER INPUT	JOCKEY PUMP*	** P2 DIESEL ENGINE-DRIVEN PUMP		P2 JOCKEY PUMP		METER KIT	FAN SURFACE
			kW	HP	kW	HP		
1 KDN 40-250/230 MD	1x220-240 V ~	JET 251 T	19	25	1,85	2,5	KDN 40 EN 12845	0,22 m^2

* Jockey pump on request.

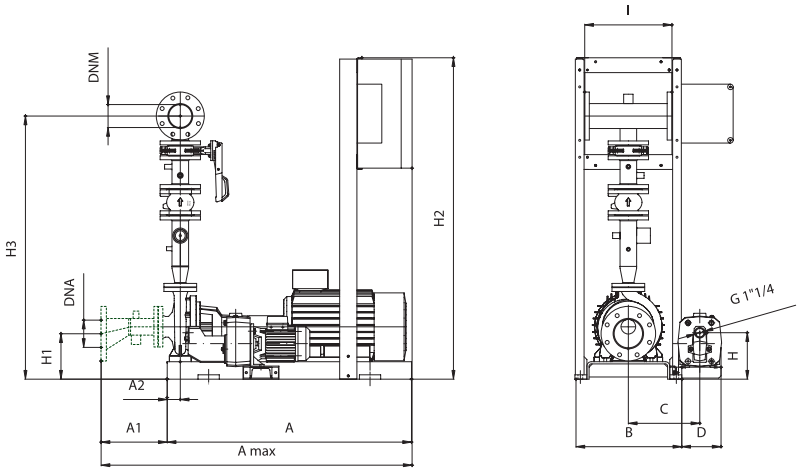
** ISO 3046 continuous power The motor is capable of delivering 10 % more of the power requested by the pump.

The performance curves are based on kinematic viscosity values = 1 mm^2/s and density equal to 1000 kg/m^3. Curve tolerance according to ISO 9906.

DIESEL ENGINE-DRIVEN PUMP MODULE



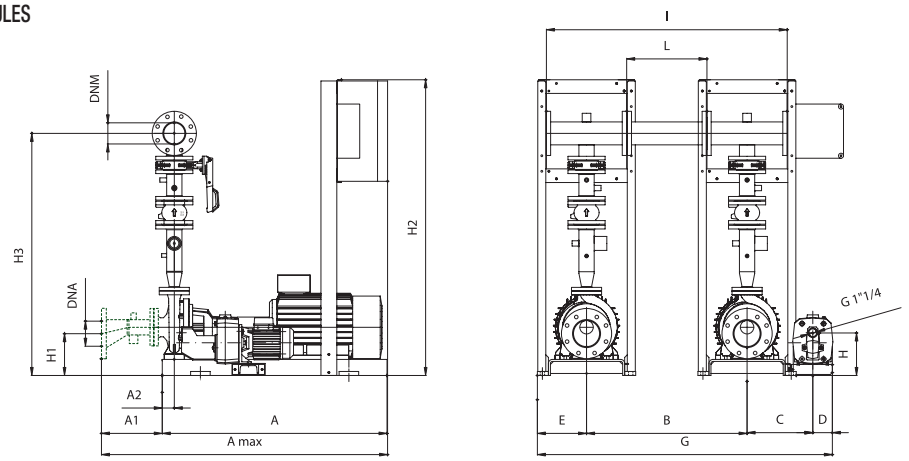
ELECTRIC PUMP MODULE



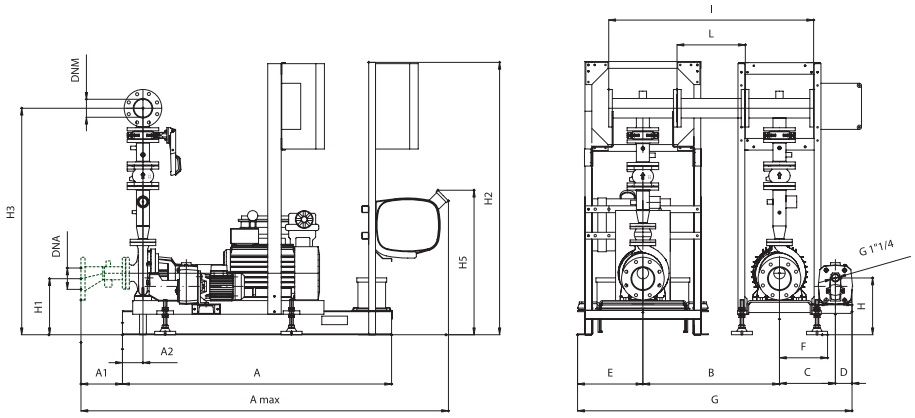
The dashed components are not included in the standard supply.

1 KDN 40-250/230 - UNI EN 12845 FIRE-FIGHTING PUMP SETS

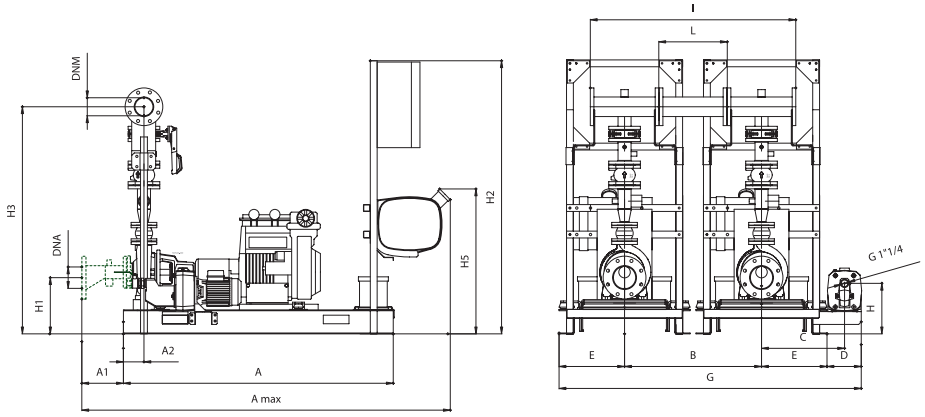
2 ELECTRIC PUMP MODULES



ELECTRIC PUMP + DIESEL ENGINE-DRIVEN PUMP MODULE



2 DIESEL ENGINE-DRIVEN PUMP MODULES

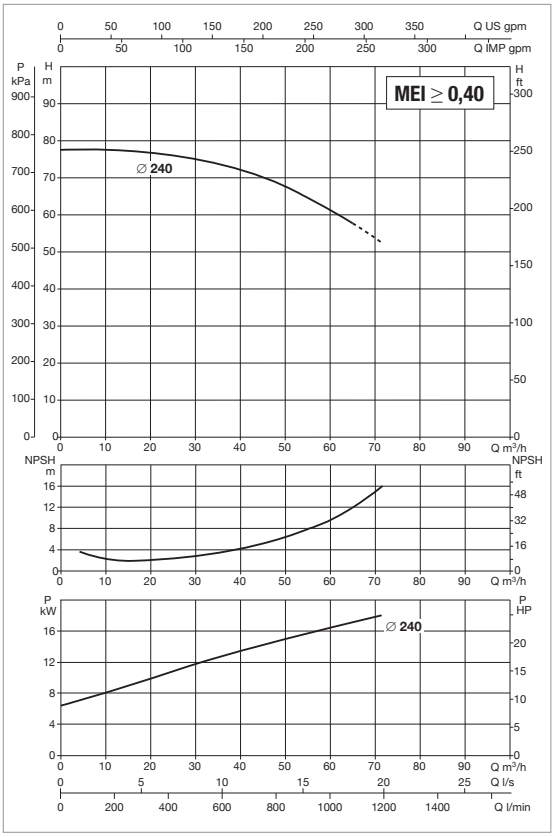


The dashed components are not included in the standard supply.

MODEL	A	A max	A1	A2	B	C	D	E	F	G	H	H1	H2	H3	H5	I	L	DNA	DNM	WEIGHT without jockey pump kg	WEIGHT with jockey pump kg
1 KDN 40-250/230 - DIESEL ENGINE DRIVEN PUMP MODULE	1576	2155	245	120	795	485	200	-	-	-	295	343	1600	1352	846	400	-	100	2" 1/2	600	630
1 KDN 40-250/230 - ELECTRIC PUMP MODULE	1250	1538	288	75	540	325	180	-	-	-	220	243	1475	1252	-	400	-	100	2" 1/2	450	480
1 KDN 40-250/230 - 2 ELECTRIC PUMP MODULES	1250	1538	288	75	800	352	100	270	-	1522	220	243	1475	1252	-	1200	400	100	2" 1/2	450	480
1 KDN 40-250/230 - ELECTRIC PUMP + DIESEL ENGINE DRIVEN PUMP MODULE	1576	2155	245	120	800	352	100	383	307	1635	320	343	1600	1352	846	1200	400	100	2" 1/2	600	480
1 KDN 40-250/230 - 2 DIESEL ENGINE DRIVEN PUMP MODULES	1576	2155	245	120	800	485	200	383	-	1766	295	343	1600	1352	846	1200	400	100	2" 1/2	600	630

1 KDN 40-250/240 - UNI EN 12845 FIRE-FIGHTING PUMP SETS

Pumped liquid temperature range: from -15 °C to +70 °C - **Maximum ambient temperature:** from +4 °C to +40 °C - **Maximum flow rate:** = 70 m^3/h



KDN UNI EN 12845 ELECTRIC PUMP

MODEL	POWER INPUT	JOCKEY PUMP*	P2 MAIN PUMP		P2 JOCKEY PUMP		METER KIT
			kW	HP	kW	HP	
1 KDN 40-250/240 18,5	3x400 V ~	JET 251 T	18,5	25	1,85	2,5	KDN 40 EN 12845

KDN UNI EN 12845 DIESEL ENGINE-DRIVEN PUMP

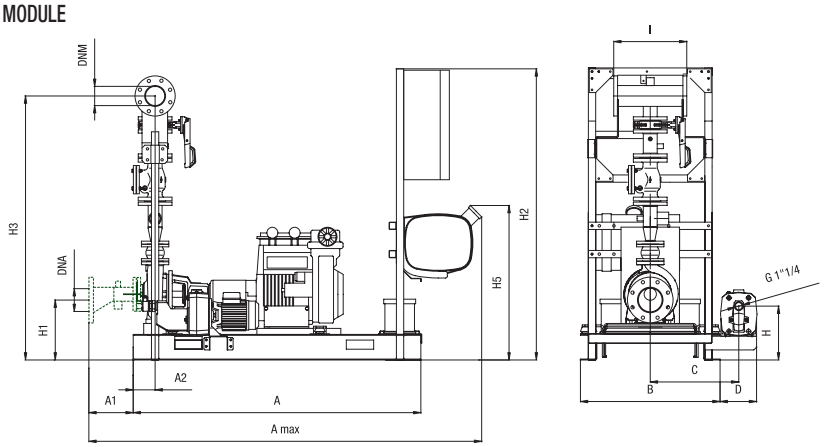
MODEL	BATTERY CHARGER POWER INPUT	JOCKEY PUMP*	** P2 DIESEL ENGINE-DRIVEN PUMP		P2 JOCKEY PUMP		METER KIT	FAN SURFACE
			kW	HP	kW	HP		
1 KDN 40-250/240 MD	1x220-240 V ~	JET 251 T	19	25	1,85	2,5	KDN 40 EN 12845	0,22 m^2

* Jockey pump on request.

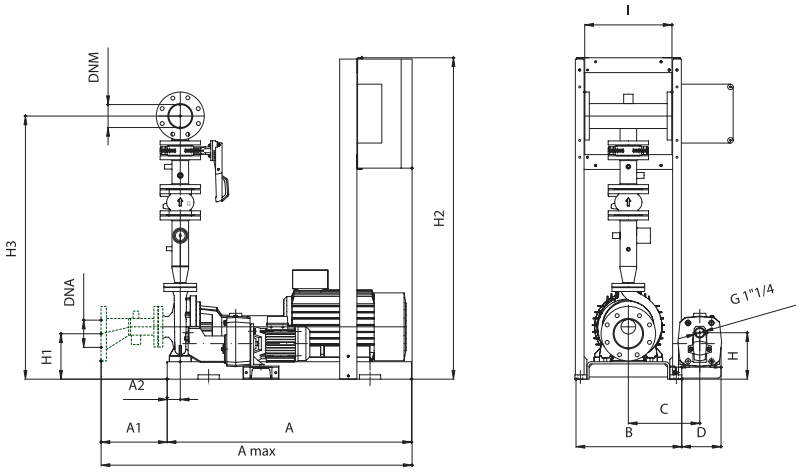
** ISO 3046 continuous power The motor is capable of delivering 10 % more of the power requested by the pump.

The performance curves are based on kinematic viscosity values = 1 mm^2/s and density equal to 1000 kg/m^3. Curve tolerance according to ISO 9906.

DIESEL ENGINE-DRIVEN PUMP MODULE



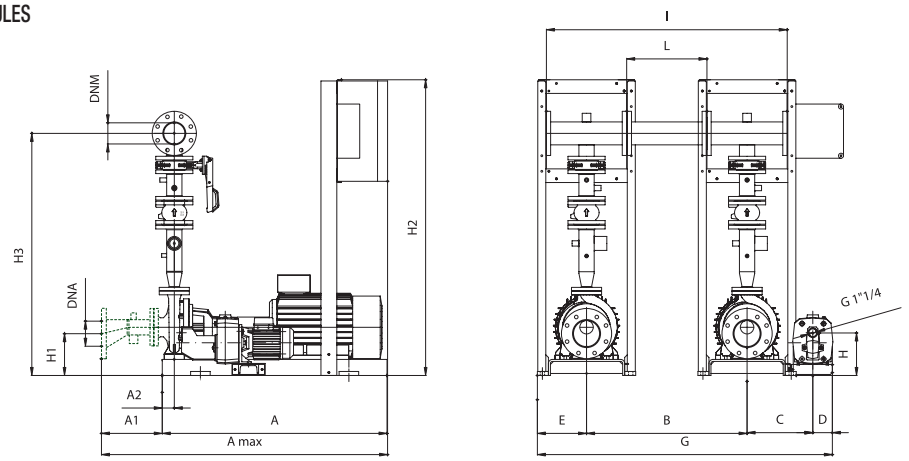
ELECTRIC PUMP MODULE



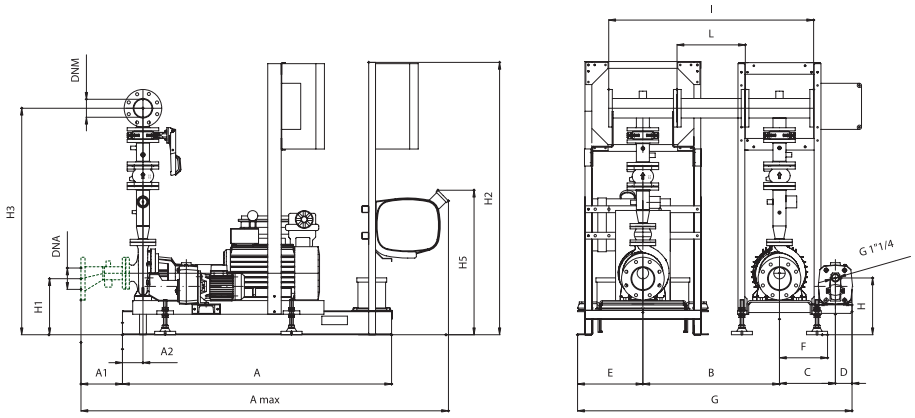
The dashed components are not included in the standard supply.

1 KDN 40-250/240 - UNI EN 12845 FIRE-FIGHTING PUMP SETS

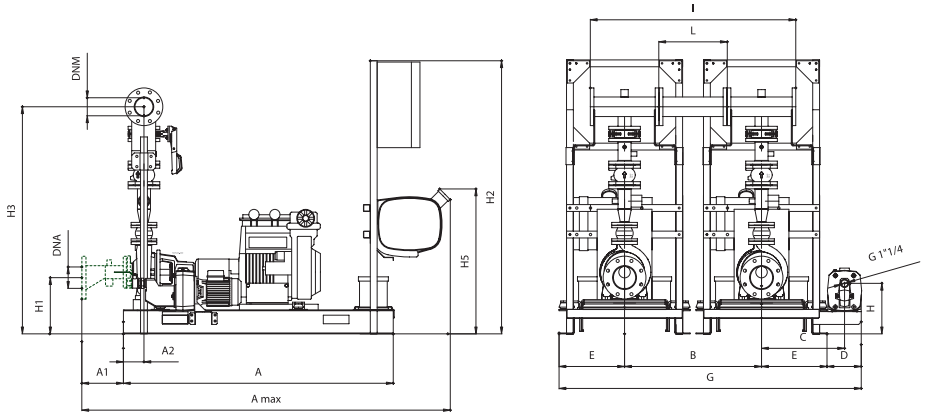
2 ELECTRIC PUMP MODULES



ELECTRIC PUMP + DIESEL ENGINE-DRIVEN PUMP MODULE



2 DIESEL ENGINE-DRIVEN PUMP MODULES

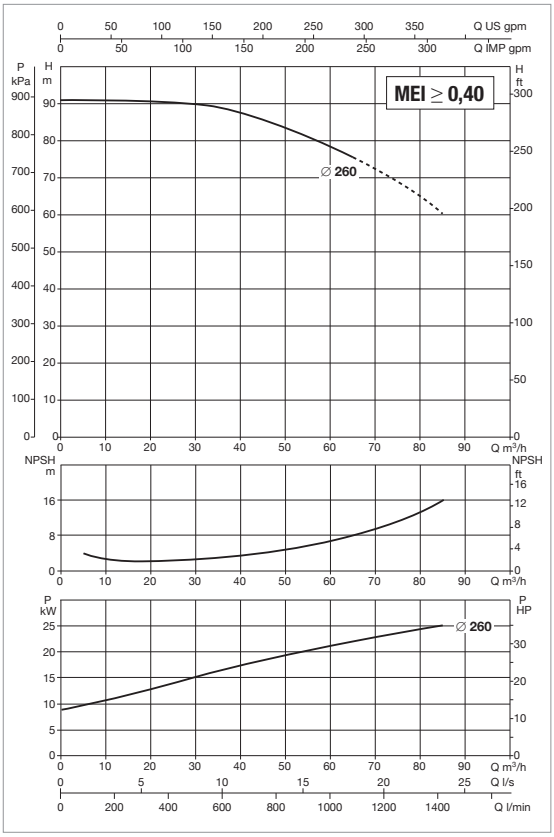


The dashed components are not included in the standard supply.

MODEL	A	A max	A1	A2	B	C	D	E	F	G	H	H1	H2	H3	H5	I	L	DNA	DNM	WEIGHT without jockey pump kg	WEIGHT with jockey pump kg
1 KDN 40-250/240 - DIESEL ENGINE DRIVEN PUMP MODULE	1576	2155	245	120	795	485	200	-	-	-	295	343	1600	1352	846	400	-	100	2" 1/2	600	630
1 KDN 40-250/240 - ELECTRIC PUMP MODULE	1250	1538	288	75	540	325	180	-	-	-	220	243	1475	1252	-	400	-	100	2" 1/2	450	480
1 KDN 40-250/240 - 2 ELECTRIC PUMP MODULES	1250	1538	288	75	800	352	100	270	-	1522	220	243	1475	1252	-	1200	400	100	2" 1/2	450	480
1 KDN 40-250/240 - ELECTRIC PUMP + DIESEL ENGINE DRIVEN PUMP MODULE	1576	2155	245	120	800	352	100	383	307	1635	320	363	1600	1372	846	1200	400	100	2" 1/2	650	480
1 KDN 40-250/240 - 2 DIESEL ENGINE DRIVEN PUMP MODULES	1576	2155	245	120	800	485	200	383	-	1766	295	343	1600	1352	846	1200	400	100	2" 1/2	600	630

1 KDN 40-250/260 - UNI EN 12845 FIRE-FIGHTING PUMP SETS

Pumped liquid temperature range: from -15 °C to +70 °C - Maximum ambient temperature: from +4 °C to +40 °C - Maximum flow rate: = 70 m^3/h



KDN UNI EN 12845 ELECTRIC PUMP

MODEL	POWER INPUT	JOCKEY PUMP*	P2 MAIN PUMP		P2 JOCKEY PUMP		METER KIT
			kW	HP	kW	HP	
1 KDN 40-250/260 30	3x400 V ~	JET 251 T	30	40	1,85	2,5	KDN 40 EN 12845

KDN UNI EN 12845 DIESEL ENGINE-DRIVEN PUMP

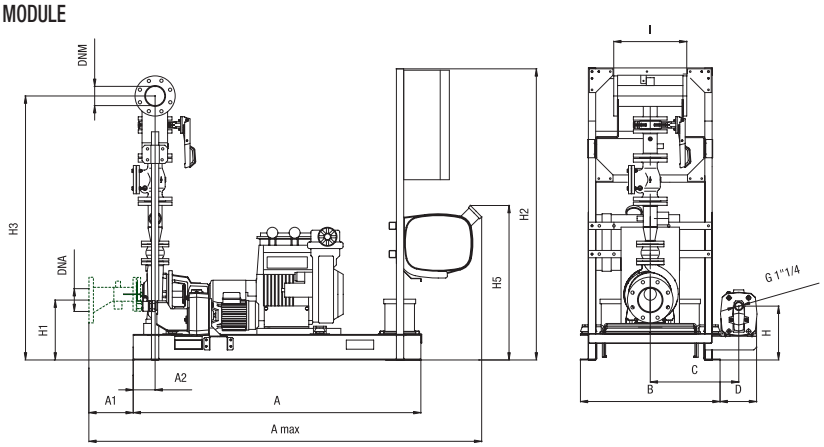
MODEL	BATTERY CHARGER POWER INPUT	JOCKEY PUMP*	** P2 DIESEL ENGINE-DRIVEN PUMP		P2 JOCKEY PUMP		METER KIT	FAN SURFACE
			kW	HP	kW	HP		
1 KDN 40-250/260 MD	1x220-240 V ~	JET 251 T	26	35	1,85	2,5	KDN 40 EN 12845	0,22 m^2

* Jockey pump on request.

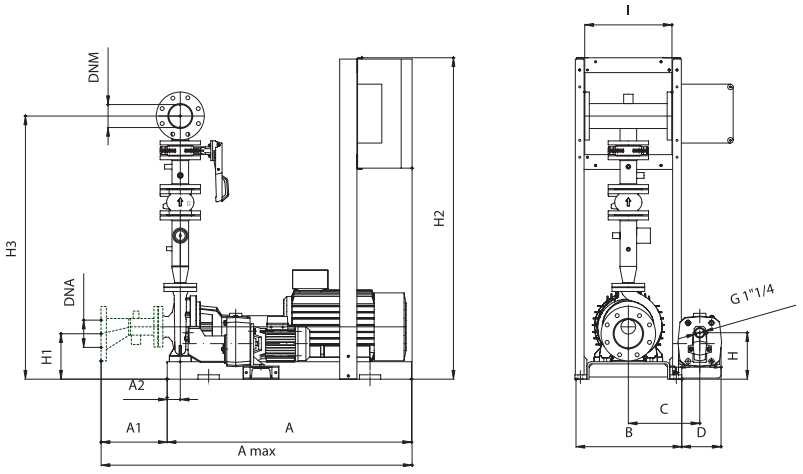
** ISO 3046 continuous power The motor is capable of delivering 10 % more of the power requested by the pump.

The performance curves are based on kinematic viscosity values = 1 mm^2/s and density equal to 1000 kg/m^3. Curve tolerance according to ISO 9906.

DIESEL ENGINE-DRIVEN PUMP MODULE



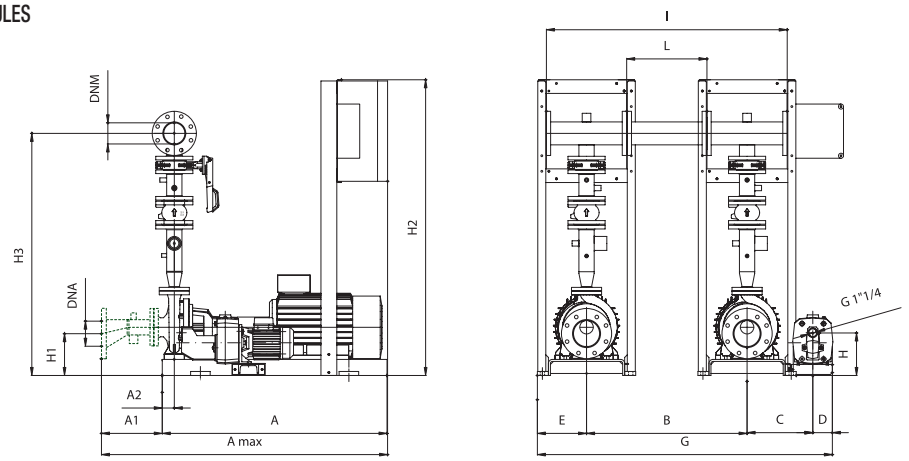
ELECTRIC PUMP MODULE



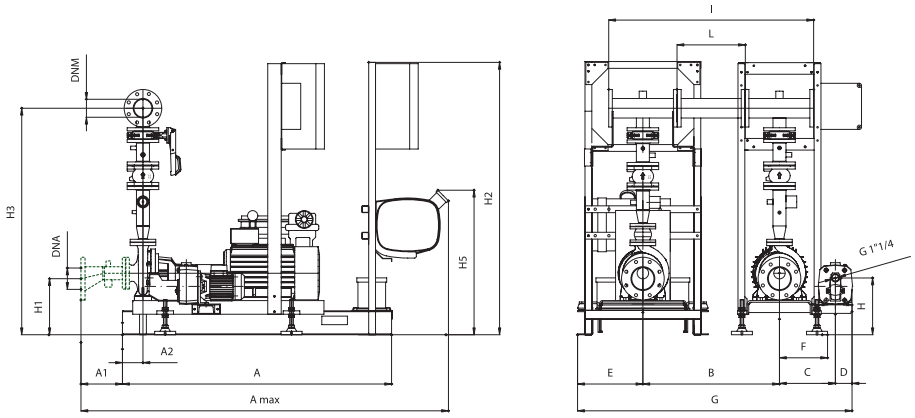
The dashed components are not included in the standard supply.

1 KDN 40-250/260 - UNI EN 12845 FIRE-FIGHTING PUMP SETS

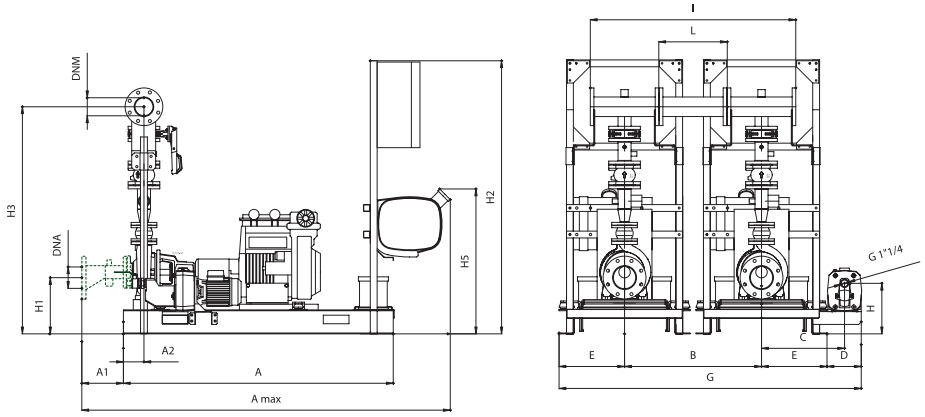
2 ELECTRIC PUMP MODULES



ELECTRIC PUMP + DIESEL ENGINE-DRIVEN PUMP MODULE



2 DIESEL ENGINE-DRIVEN PUMP MODULES

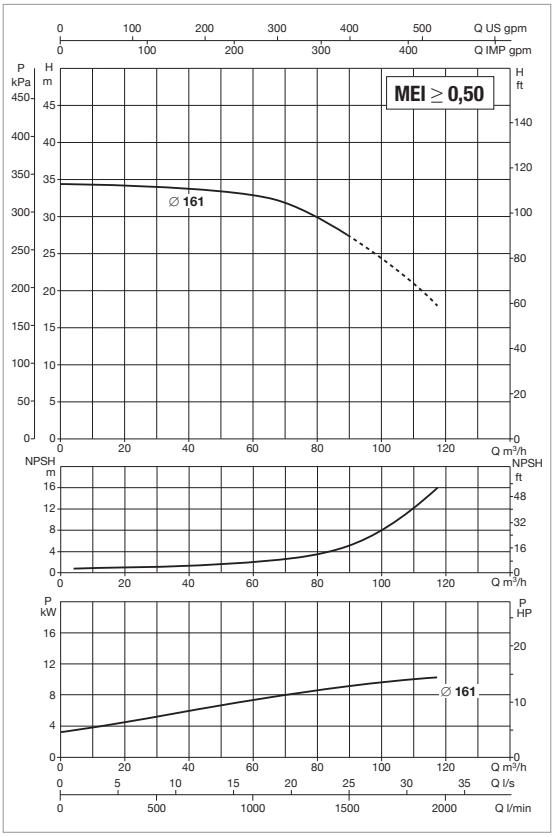


The dashed components are not included in the standard supply.

MODEL	A	A max	A1	A2	B	C	D	E	F	G	H	H1	H2	H3	H5	I	L	DNA	DNM	WEIGHT without jockey pump kg	WEIGHT with jockey pump kg
1 KDN 40-250/260 - DIESEL ENGINE DRIVEN PUMP MODULE	1576	2155	245	120	795	485	200	-	-	-	295	363	1600	1372	846	400	-	100	2" 1/2	650	680
1 KDN 40-250/260 - ELECTRIC PUMP MODULE	1250	1538	288	75	540	325	180	-	-	-	220	243	1475	1252	-	400	-	100	2" 1/2	450	480
1 KDN 40-250/260 - 2 ELECTRIC PUMP MODULES	1250	1538	288	75	800	352	100	270	-	1522	220	243	1475	1252	-	1200	400	100	2" 1/2	450	480
1 KDN 40-250/260 - ELECTRIC PUMP + DIESEL ENGINE DRIVEN PUMP MODULE	1576	2155	245	120	800	352	100	383	307	1635	320	363	1600	1372	846	1200	400	100	2" 1/2	650	480
1 KDN 40-250/260 - 2 DIESEL ENGINE DRIVEN PUMP MODULES	1576	2155	245	120	800	485	200	383	-	1766	295	363	1600	1372	846	1200	400	100	2" 1/2	650	680

1 KDN 50-160/161 - UNI EN 12845 FIRE-FIGHTING PUMP SETS

Pumped liquid temperature range: from -15 °C to +70 °C - Maximum ambient temperature: from +4 °C to +40 °C - Maximum flow rate: = 100 m^3/h



KDN UNI EN 12845 ELECTRIC PUMP

MODEL	POWER INPUT	JOCKEY PUMP*	P2 MAIN PUMP		P2 JOCKEY PUMP		METER KIT
			kW	HP	kW	HP	
1 KDN 50-160/161 11	3x400 V ~	JET 251 T	11	15	1,85	2,5	KDN 50 EN 12845

KDN UNI EN 12845 DIESEL ENGINE-DRIVEN PUMP

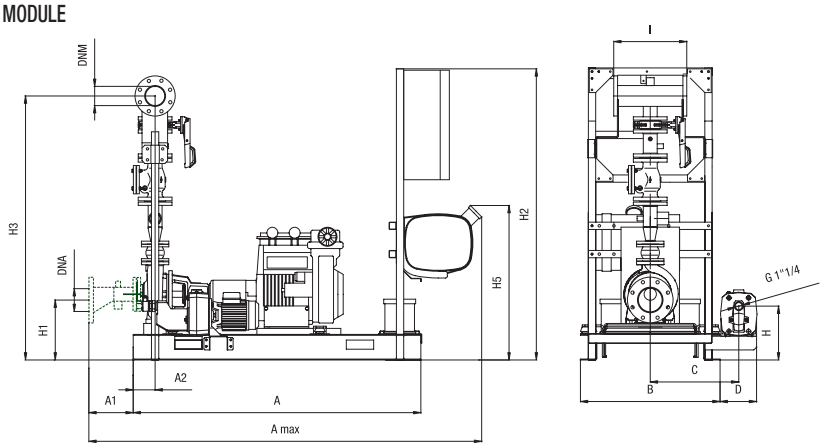
MODEL	BATTERY CHARGER POWER INPUT	JOCKEY PUMP*	** P2 DIESEL ENGINE-DRIVEN PUMP		P2 JOCKEY PUMP		METER KIT	FAN SURFACE
			kW	HP	kW	HP		
1 KDN 50-160/161 MD	1x220-240 V ~	JET 251 T	11	15	1,85	2,5	KDN 50 EN 12845	0,22 m^2

* Jockey pump on request.

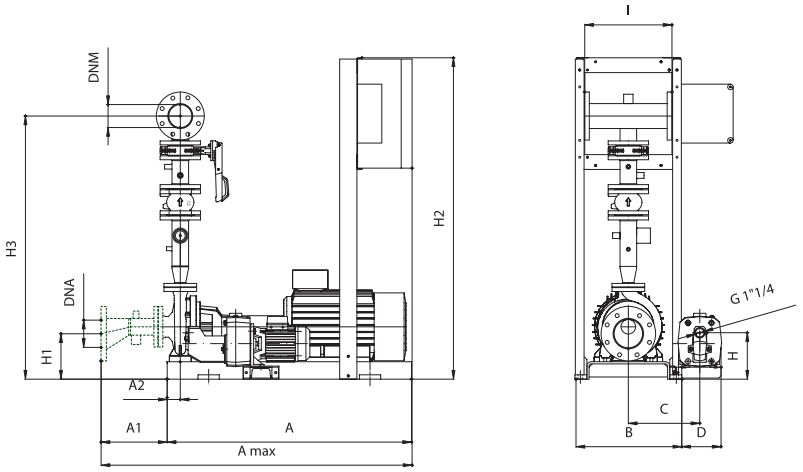
** ISO 3046 continuous power The motor is capable of delivering 10 % more of the power requested by the pump.

The performance curves are based on kinematic viscosity values = 1 mm^2/s and density equal to 1000 kg/m^3. Curve tolerance according to ISO 9906.

DIESEL ENGINE-DRIVEN PUMP MODULE



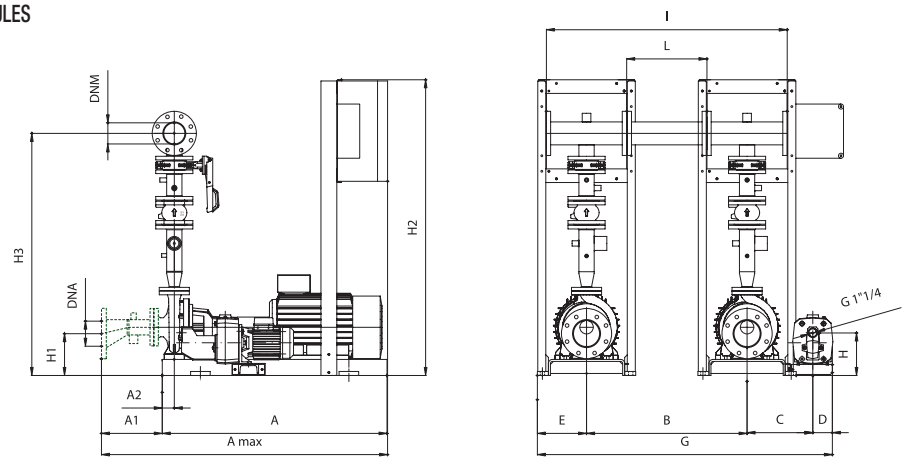
ELECTRIC PUMP MODULE



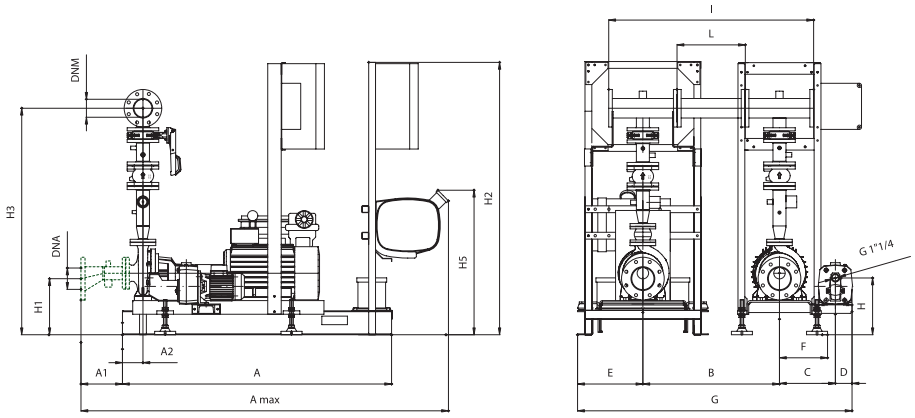
The dashed components are not included in the standard supply.

1 KDN 50-160/161 - UNI EN 12845 FIRE-FIGHTING PUMP SETS

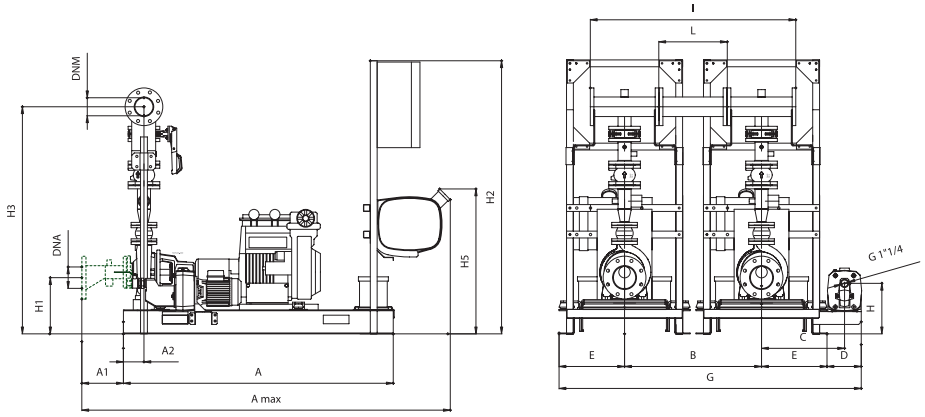
2 ELECTRIC PUMP MODULES



ELECTRIC PUMP + DIESEL ENGINE-DRIVEN PUMP MODULE



2 DIESEL ENGINE-DRIVEN PUMP MODULES

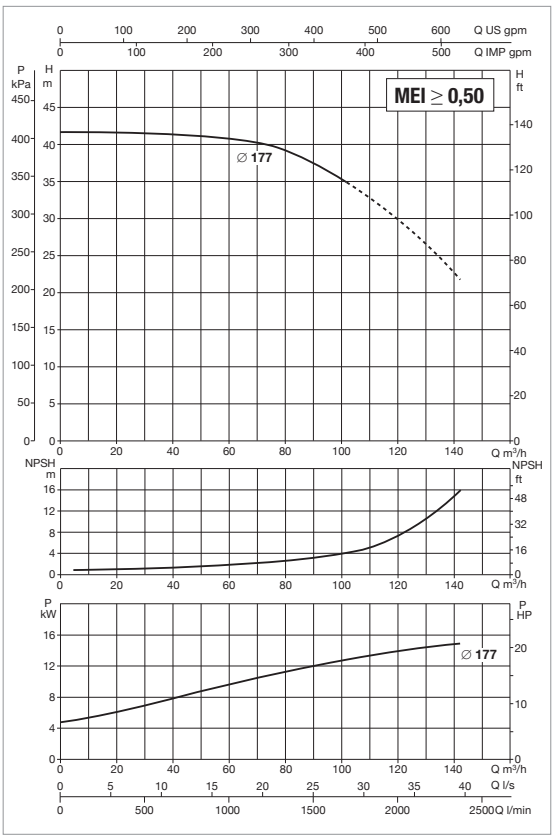


The dashed components are not included in the standard supply.

MODEL	A	A max	A1	A2	B	C	D	E	F	G	H	H1	H2	H3	H5	I	L	DNA	DNM	WEIGHT without jockey pump kg	WEIGHT with jockey pump kg
1 KDN 50-160/161 - DIESEL ENGINE DRIVEN PUMP MODULE	1576	2170	260	120	795	485	200	-	-	-	295	312	1600	1330	846	400	-	125	80	610	640
1 KDN 50-160/161 - ELECTRIC PUMP MODULE	1120	1440	316	60	490	327	180	-	-	-	220	212	1475	1230	-	400	-	125	80	350	380
1 KDN 50-160/161 - 2 ELECTRIC PUMP MODULES	1120	1440	316	60	800	327	100	245	-	1472	220	212	1475	1230	-	1200	400	125	80	350	380
1 KDN 50-160/161 - ELECTRIC PUMP + DIESEL ENGINE DRIVEN PUMP MODULE	1576	2170	260	120	800	327	100	383	287	1610	320	312	1600	1330	846	1200	400	125	80	610	380
1 KDN 50-160/161 - 2 DIESEL ENGINE DRIVEN PUMP MODULES	1576	2170	260	120	800	485	200	383	-	1766	295	312	1600	1330	846	1200	400	125	80	610	640

1 KDN 50-160/177 - UNI EN 12845 FIRE-FIGHTING PUMP SETS

Pumped liquid temperature range: from -15 °C to +70 °C - Maximum ambient temperature: from +4 °C to +40 °C - Maximum flow rate: = 100 m3/h



KDN UNI EN 12845 ELECTRIC PUMP

MODEL	POWER INPUT	JOCKEY PUMP*	P2 MAIN PUMP		P2 JOCKEY PUMP		METER KIT
			kW	HP	kW	HP	
1 KDN 50-160/177 15	3x400 V ~	JET 251 T	15	20	1,85	2,5	KDN 50 EN 12845

KDN UNI EN 12845 DIESEL ENGINE-DRIVEN PUMP

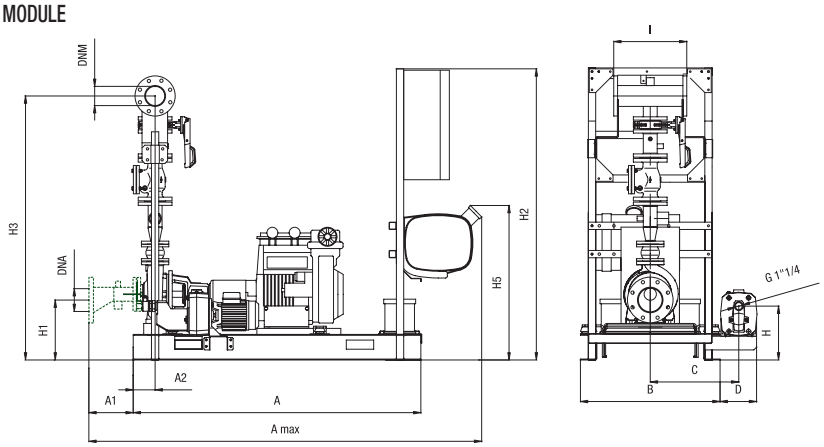
MODEL	BATTERY CHARGER POWER INPUT	JOCKEY PUMP*	** P2 DIESEL ENGINE-DRIVEN PUMP		P2 JOCKEY PUMP		METER KIT	FAN SURFACE
			kW	HP	kW	HP		
1 KDN 50-160/177 MD	1x220-240 V ~	JET 251 T	15	20	1,85	2,5	KDN 50 EN 12845	0,22 m2

* Jockey pump on request.

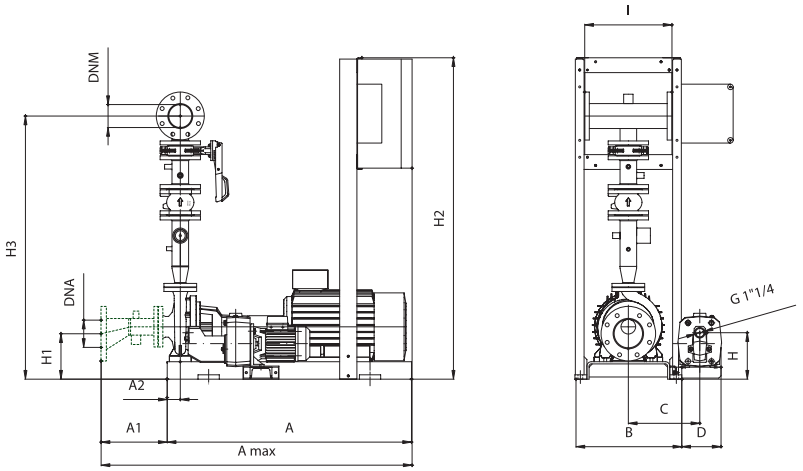
** ISO 3046 continuous power The motor is capable of delivering 10 % more of the power requested by the pump.

The performance curves are based on kinematic viscosity values = 1 mm2/s and density equal to 1000 kg/m3. Curve tolerance according to ISO 9906.

DIESEL ENGINE-DRIVEN PUMP MODULE



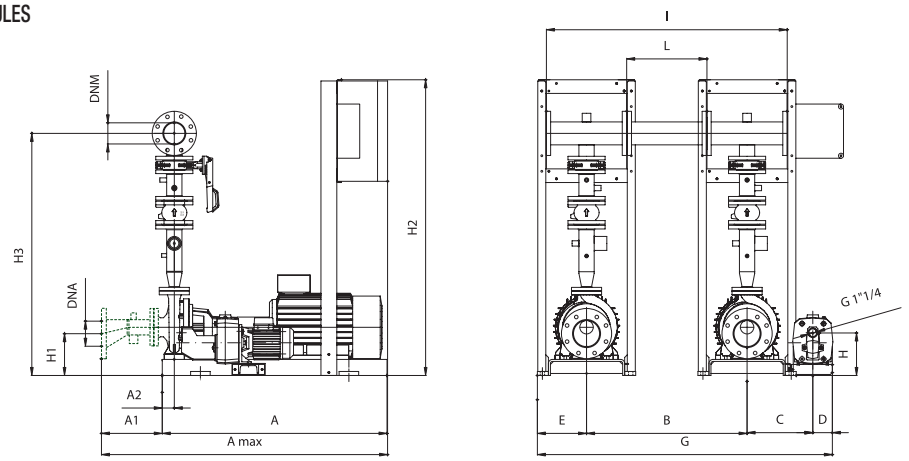
ELECTRIC PUMP MODULE



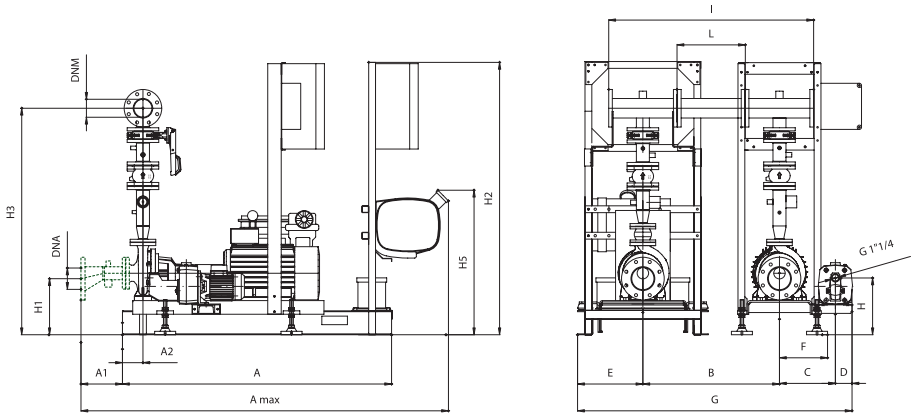
The dashed components are not included in the standard supply.

1 KDN 50-160/177 - UNI EN 12845 FIRE-FIGHTING PUMP SETS

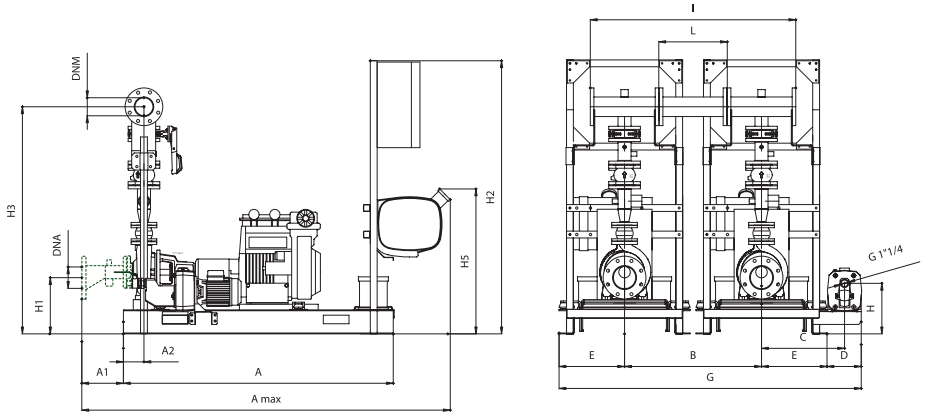
2 ELECTRIC PUMP MODULES



ELECTRIC PUMP + DIESEL ENGINE-DRIVEN PUMP MODULE



2 DIESEL ENGINE-DRIVEN PUMP MODULES

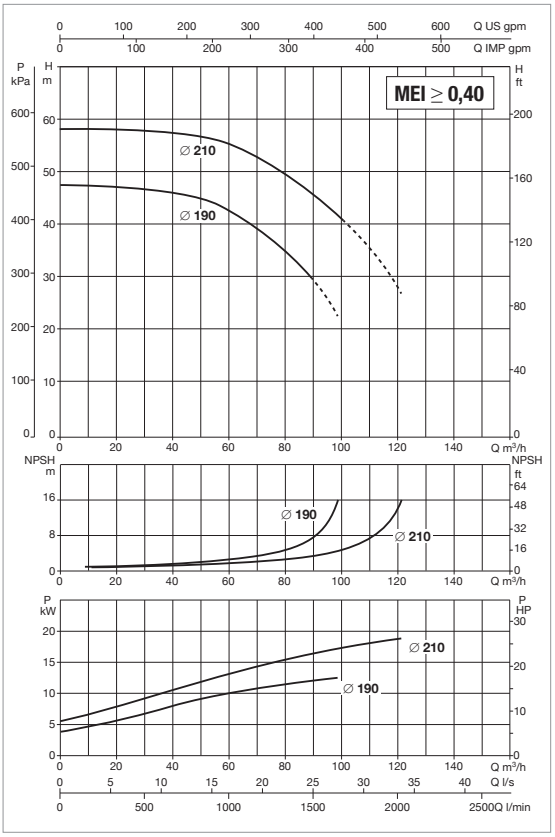


The dashed components are not included in the standard supply.

MODEL	A	A max	A1	A2	B	C	D	E	F	G	H	H1	H2	H3	H5	I	L	DNA	DNM	WEIGHT without jockey pump kg	WEIGHT with jockey pump kg
1 KDN 50-160/177 - DIESEL ENGINE DRIVEN PUMP MODULE	1576	2170	260	120	795	485	200	-	-	-	295	332	1600	1350	846	400	-	125	80	620	650
1 KDN 50-160/177 - ELECTRIC PUMP MODULE	1120	1440	316	60	490	327	180	-	-	-	220	212	1475	1230	-	400	-	125	80	350	380
1 KDN 50-160/177 - 2 ELECTRIC PUMP MODULES	1120	1440	316	60	800	327	100	245	-	1472	220	212	1475	1230	-	1200	400	125	80	350	380
1 KDN 50-160/177 - ELECTRIC PUMP + DIESEL ENGINE DRIVEN PUMP MODULE	1576	2170	260	120	800	327	100	383	287	1610	340	332	1600	1350	846	1200	400	125	80	620	380
1 KDN 50-160/177 - 2 DIESEL ENGINE DRIVEN PUMP MODULES	1576	2170	260	120	800	485	200	383	-	1766	295	332	1600	1350	846	1200	400	125	80	620	650

1 KDN 50-200/190-210 - UNI EN 12845 FIRE-FIGHTING PUMP SETS

Pumped liquid temperature range: from -15 °C to +70 °C - Maximum ambient temperature: from +4 °C to +40 °C - Maximum flow rate: = 110 m3/h



KDN UNI EN 12845 ELECTRIC PUMP

MODEL	POWER INPUT	JOCKEY PUMP*	P2 MAIN PUMP		P2 JOCKEY PUMP		METER KIT
			kW	HP	kW	HP	
1 KDN 50-200/190 15	3x400 V ~	JET 251 T	15	20	1,85	2,5	KDN 50 EN 12845
1 KDN 50-200/210 18,5	3x400 V ~	JET 251 T	18,5	25	1,85	2,5	KDN 50 EN 12845

KDN UNI EN 12845 DIESEL ENGINE-DRIVEN PUMP

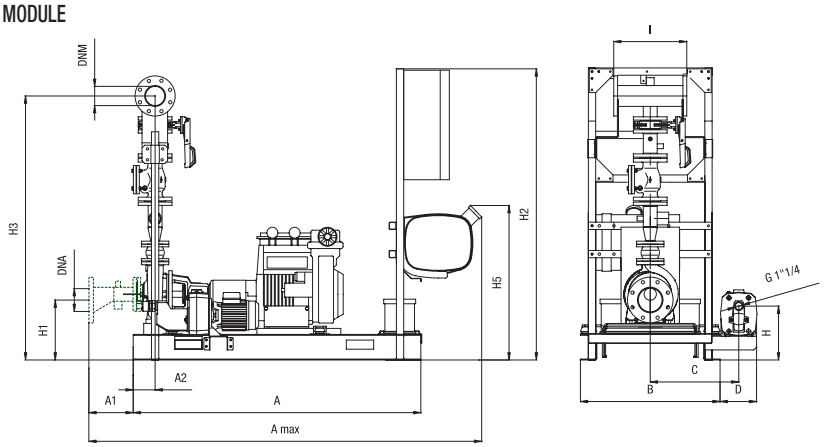
MODEL	BATTERY CHARGER POWER INPUT	JOCKEY PUMP*	** P2 DIESEL ENGINE-DRIVEN PUMP		P2 JOCKEY PUMP		METER KIT	FAN SURFACE
			kW	HP	kW	HP		
1 KDN 50-200/190 MD	1x220-240 V ~	JET 251 T	15	20	1,85	2,5	KDN 50 EN 12845	0,22 m²
1 KDN 50-200/210 MD	1x220-240 V ~	JET 251 T	19	25	1,85	2,5	KDN 50 EN 12845	0,22 m²

* Jockey pump on request.

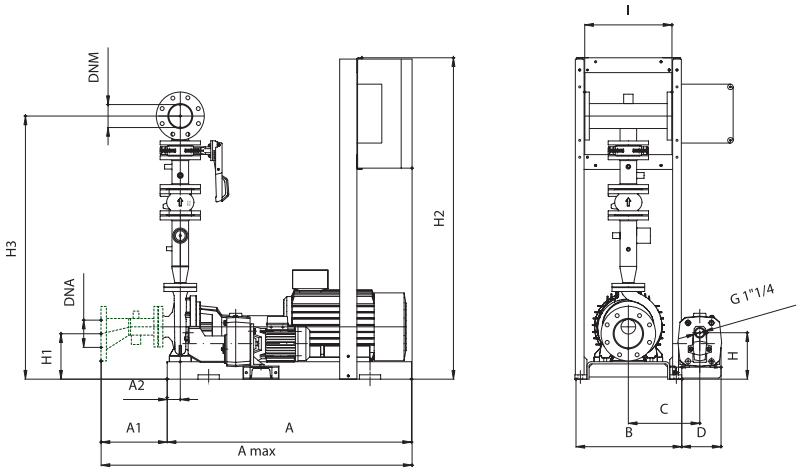
** ISO 3046 continuous power The motor is capable of delivering 10 % more of the power requested by the pump.

The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

DIESEL ENGINE-DRIVEN PUMP MODULE



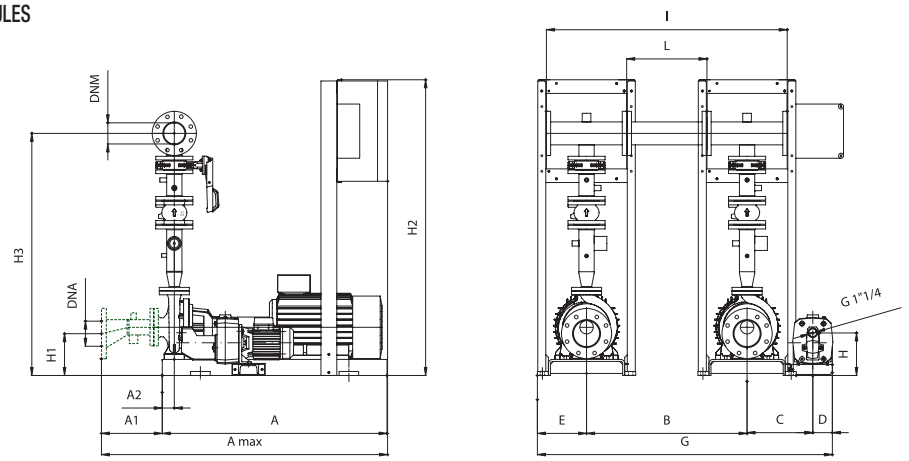
ELECTRIC PUMP MODULE



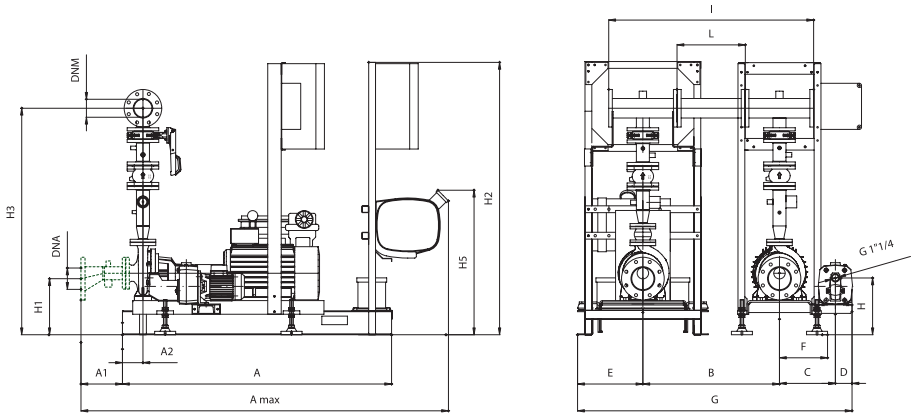
The dashed components are not included in the standard supply.

1 KDN 50-200/190-210 - UNI EN 12845 FIRE-FIGHTING PUMP SETS

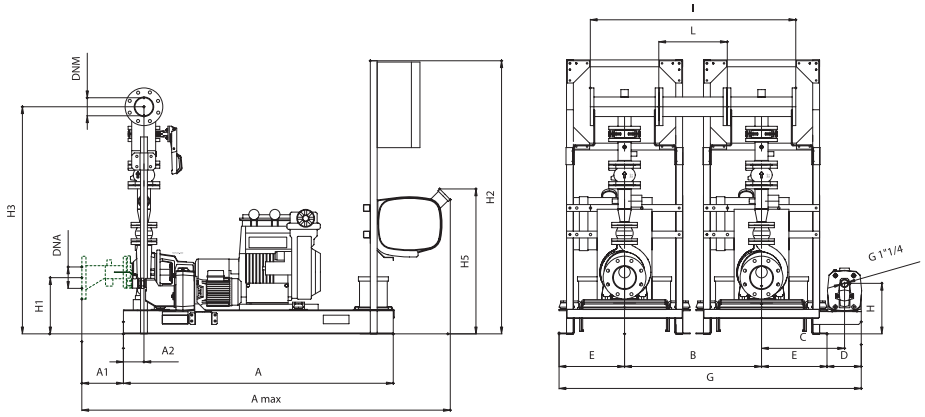
2 ELECTRIC PUMP MODULES



ELECTRIC PUMP + DIESEL ENGINE-DRIVEN PUMP MODULE



2 DIESEL ENGINE-DRIVEN PUMP MODULES

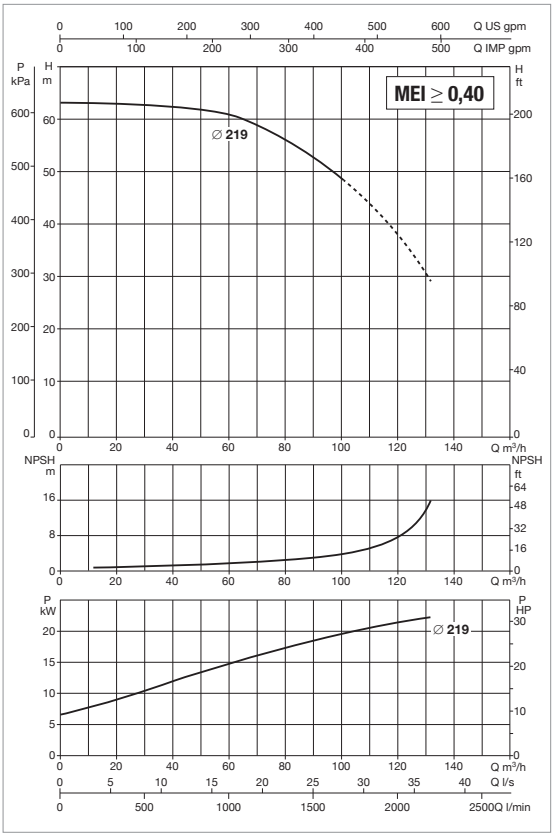


The dashed components are not included in the standard supply.

MODEL	A	A max	A1	A2	B	C	D	E	F	G	H	H1	H2	H3	H5	I	L	DNA	DNM	WEIGHT without jockey pump kg	WEIGHT with jockey pump kg
1 KDN 50-200/190-210 - DIESEL ENGINE-DRIVEN PUMP MODULE	1576	2170	260	120	795	485	200	-	-	-	295	332	1600	1370	846	400	-	125	80	630	660
1 KDN 50-200/190-210 - ELECTRIC PUMP MODULE	1120	1440	316	60	490	327	180	-	-	-	220	212	1475	1250	-	400	-	125	80	420	450
1 KDN 50-200/190-210 - 2 ELECTRIC PUMP MODULES	1120	1440	316	60	800	327	100	245	-	1472	220	212	1475	1250	-	1200	400	125	80	420	450
1 KDN 50-200/190-210 - ELECTRIC PUMP + DIESEL ENGINE DRIVEN PUMP MODULE	1576	2170	260	120	800	327	100	383	282	1610	340	332	1600	1370	846	1200	400	125	80	630	510
1 KDN 50-200/190-210 - 2 DIESEL ENGINE DRIVEN PUMP MODULES	1576	2170	260	120	800	485	200	383	-	1766	295	332	1600	1370	846	1200	400	125	80	630	660

1 KDN 50-200/219 - UNI EN 12845 FIRE-FIGHTING PUMP SETS

Pumped liquid temperature range: from -15 °C to +70 °C - Maximum ambient temperature: from +4 °C to +40 °C - Maximum flow rate: = 110 m3/h



KDN UNI EN 12845 ELECTRIC PUMP

MODEL	POWER INPUT	JOCKEY PUMP*	P2 MAIN PUMP		P2 JOCKEY PUMP		METER KIT
			kW	HP	kW	HP	
1 KDN 50-200/219 22	3x400 V ~	JET 251 T	22	30	1,85	2,5	KDN 50 EN 12845

KDN UNI EN 12845 DIESEL ENGINE-DRIVEN PUMP

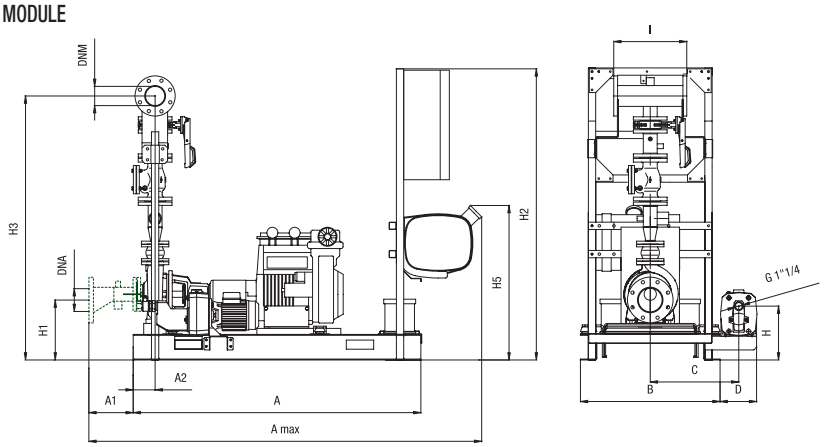
MODEL	BATTERY CHARGER POWER INPUT	JOCKEY PUMP*	** P2 DIESEL ENGINE-DRIVEN PUMP		P2 JOCKEY PUMP		METER KIT	FAN SURFACE
			kW	HP	kW	HP		
1 KDN 50-200/219 MD	1x220-240 V ~	JET 251 T	26	35	1,85	2,5	KDN 50 EN 12845	0,22 m²

* Jockey pump on request.

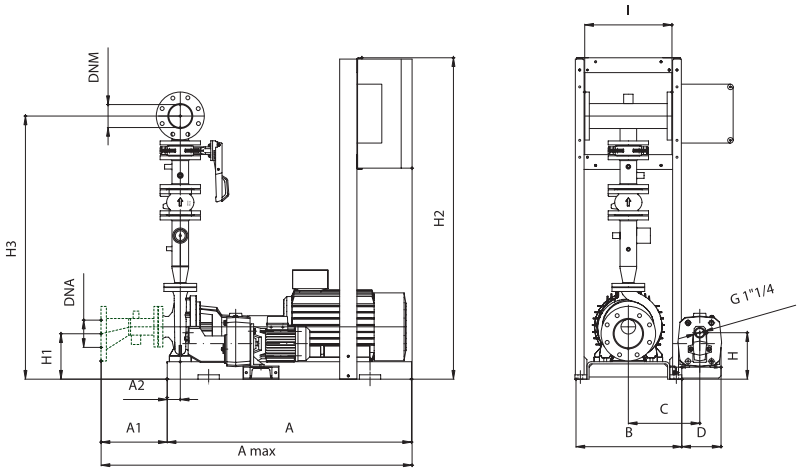
** ISO 3046 continuous power The motor is capable of delivering 10 % more of the power requested by the pump.

The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

DIESEL ENGINE-DRIVEN PUMP MODULE



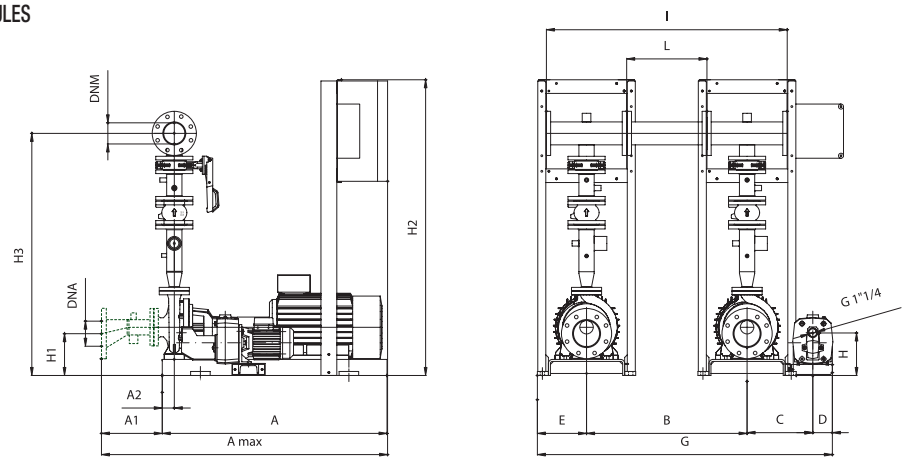
ELECTRIC PUMP MODULE



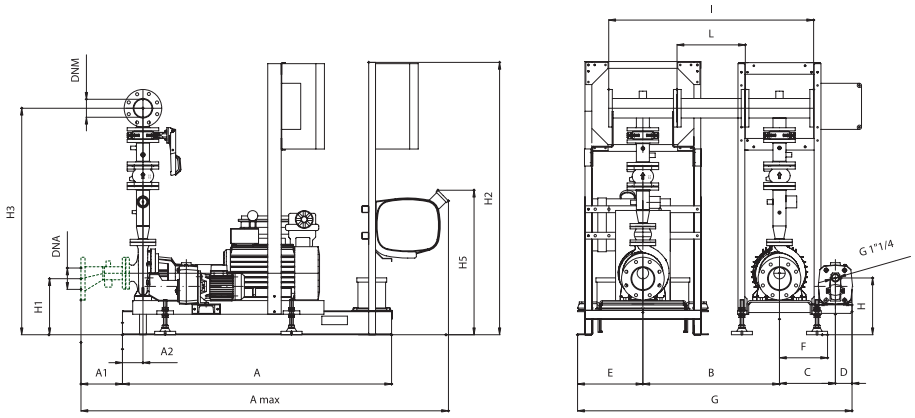
The dashed components are not included in the standard supply.

1 KDN 50-200/219 - UNI EN 12845 FIRE-FIGHTING PUMP SETS

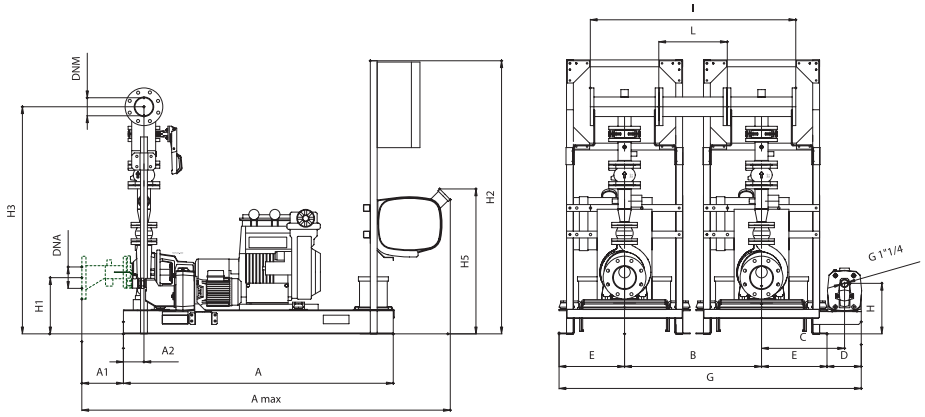
2 ELECTRIC PUMP MODULES



ELECTRIC PUMP + DIESEL ENGINE-DRIVEN PUMP MODULE



2 DIESEL ENGINE-DRIVEN PUMP MODULES

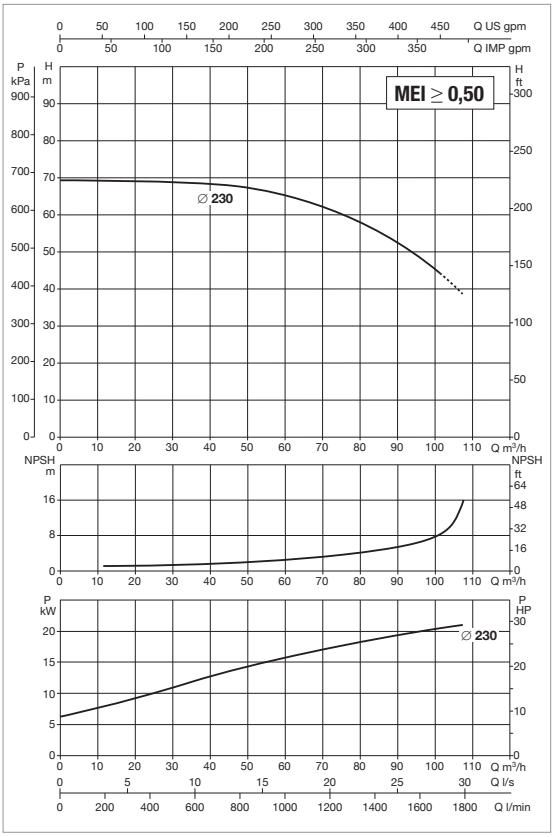


The dashed components are not included in the standard supply.

MODEL	A	A max	A1	A2	B	C	D	E	F	G	H	H1	H2	H3	H5	I	L	DNA	DNM	WEIGHT without jockey pump kg	WEIGHT with jockey pump kg
1 KDN 50-200/219 - DIESEL ENGINE DRIVEN PUMP MODULE	1576	2170	260	120	795	485	200	-	-	-	295	332	1600	1370	846	400	-	125	80	630	660
1 KDN 50-200/219 - ELECTRIC PUMP MODULE	1120	1440	316	60	490	327	180	-	-	-	220	232	1475	1270	-	400	-	125	80	480	510
1 KDN 50-200/219 - 2 ELECTRIC PUMP MODULES	1120	1440	316	60	800	327	100	245	-	1472	220	232	1475	1270	-	1200	400	125	80	480	510
1 KDN 50-200/219 - ELECTRIC PUMP + DIESEL ENGINE DRIVEN PUMP MODULE	1576	2170	260	120	800	327	100	383	282	1610	340	332	1600	1370	846	1200	400	125	80	630	510
1 KDN 50-200/219 - 2 DIESEL ENGINE DRIVEN PUMP MODULES	1576	2170	260	120	800	485	200	383	-	1766	295	332	1600	1370	846	1200	400	125	80	630	660

1 KDN 50-250/230 - UNI EN 12845 FIRE-FIGHTING PUMP SETS

Pumped liquid temperature range: from -15 °C to +70 °C - Maximum ambient temperature: from +4 °C to +40 °C - Maximum flow rate: = 110 m^3/h



KDN UNI EN 12845 ELECTRIC PUMP

MODEL	POWER INPUT	JOCKEY PUMP*	P2 MAIN PUMP		P2 JOCKEY PUMP		METER KIT
			kW	HP	kW	HP	
1 KDN 50-250/230 22	3x400 V ~	JET 251 T	22	30	1,85	2,5	KDN 50 EN 12845

KDN UNI EN 12845 DIESEL ENGINE-DRIVEN PUMP

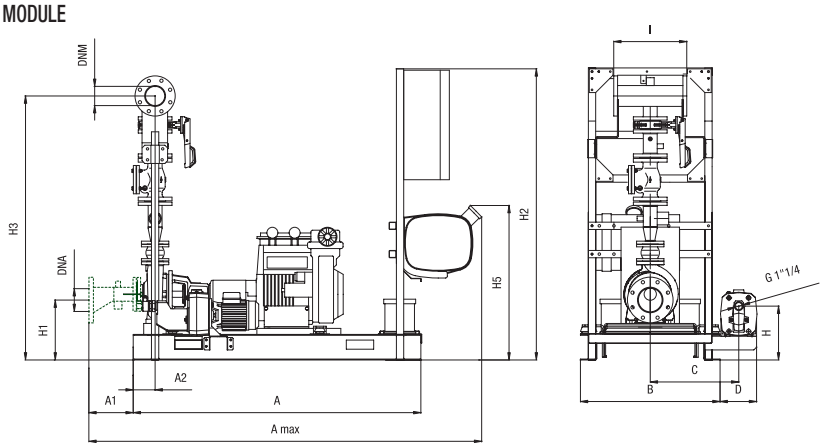
MODEL	BATTERY CHARGER POWER INPUT	JOCKEY PUMP*	** P2 DIESEL ENGINE-DRIVEN PUMP		P2 JOCKEY PUMP		METER KIT	FAN SURFACE
			kW	HP	kW	HP		
1 KDN 50-250/230 MD	1x220-240 V ~	JET 251 T	26	35	1,85	2,5	KDN 50 EN 12845	0,22 m^2

* Jockey pump on request.

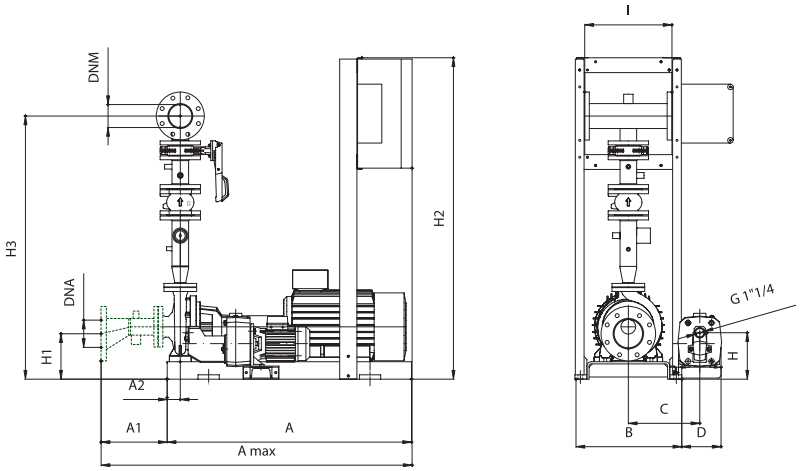
** ISO 3046 continuous power The motor is capable of delivering 10 % more of the power requested by the pump.

The performance curves are based on kinematic viscosity values = 1 mm^2/s and density equal to 1000 kg/m^3. Curve tolerance according to ISO 9906.

DIESEL ENGINE-DRIVEN PUMP MODULE



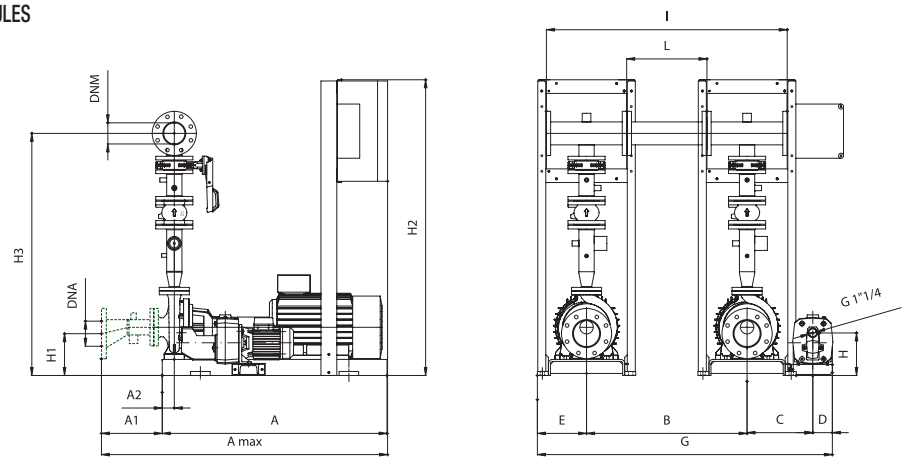
ELECTRIC PUMP MODULE



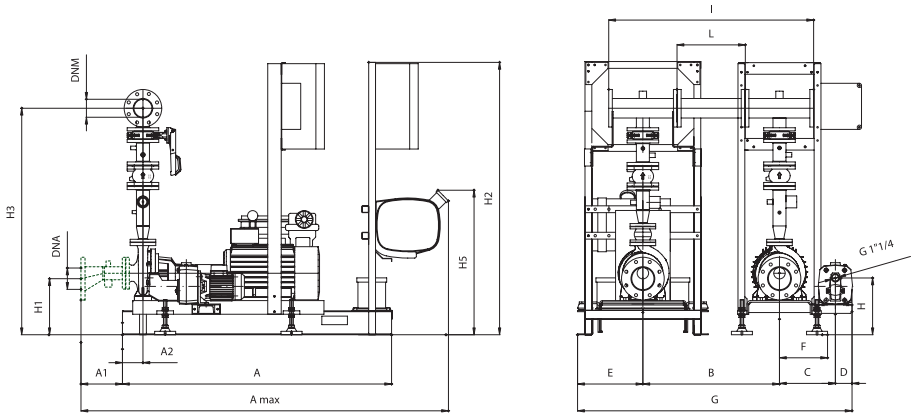
The dashed components are not included in the standard supply.

1 KDN 50-250/230 - UNI EN 12845 FIRE-FIGHTING PUMP SETS

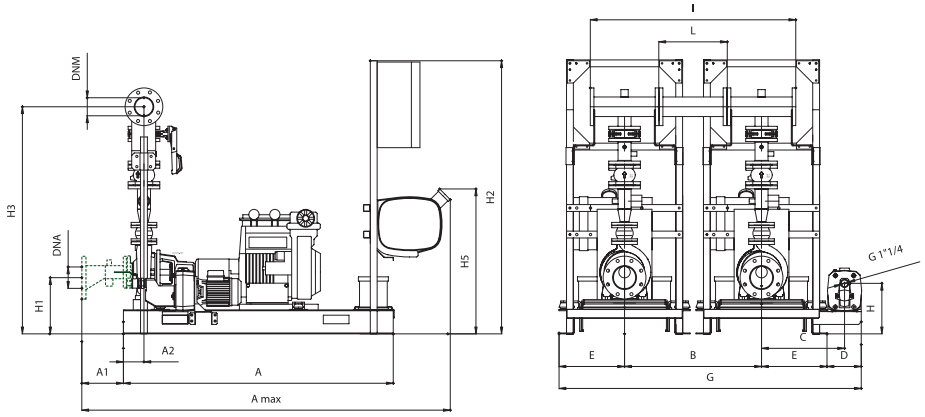
2 ELECTRIC PUMP MODULES



ELECTRIC PUMP + DIESEL ENGINE-DRIVEN PUMP MODULE



2 DIESEL ENGINE-DRIVEN PUMP MODULES

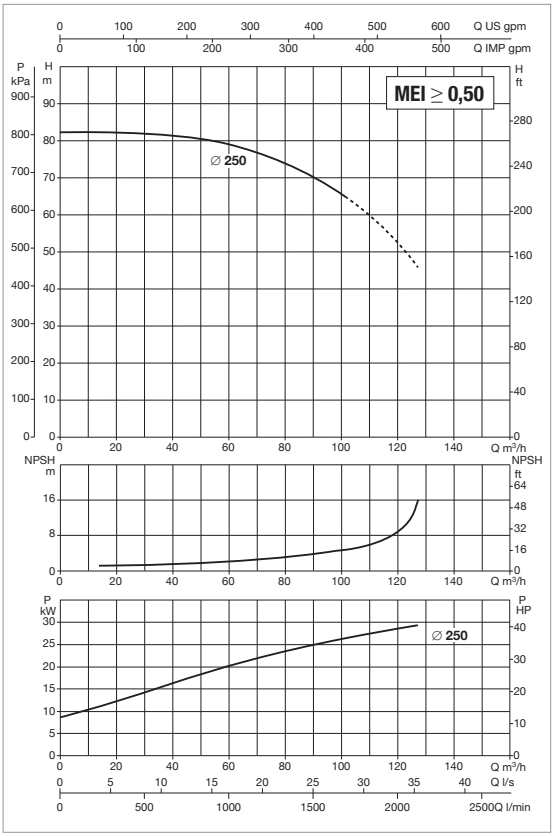


The dashed components are not included in the standard supply.

MODEL	A	A max	A1	A2	B	C	D	E	F	G	H	H1	H2	H3	H5	I	L	DNA	DNM	WEIGHT without jockey pump kg	WEIGHT with jockey pump kg
1 KDN 50-250/230 - DIESEL ENGINE DRIVEN PUMP MODULE	1576	2170	260	120	795	485	200	-	-	-	295	352	1600	1415	846	400	-	125	80	690	720
1 KDN 50-250/230 - ELECTRIC PUMP MODULE	1250	1550	300	75	540	352	180	-	-	-	220	232	1475	1295	-	400	-	125	80	500	530
1 KDN 50-250/230 - 2 ELECTRIC PUMP MODULES	1250	1550	300	75	800	352	100	270	-	1522	220	232	1475	1295	-	1200	400	125	80	500	530
1 KDN 50-250/230 - ELECTRIC PUMP + DIESEL ENGINE DRIVEN PUMP MODULE	1576	2170	260	120	800	352	100	383	307	1635	340	352	1600	1415	846	1200	400	125	80	690	580
1 KDN 50-250/230 - 2 DIESEL ENGINE DRIVEN PUMP MODULES	1576	2170	260	120	800	485	200	383	-	1766	295	352	1600	1415	846	1200	400	125	80	690	720

1 KDN 50-250/250 - UNI EN 12845 FIRE-FIGHTING PUMP SETS

Pumped liquid temperature range: from -15 °C to +70 °C - Maximum ambient temperature: from +4 °C to +40 °C - Maximum flow rate: = 110 m^3/h



KDN UNI EN 12845 ELECTRIC PUMP

MODEL	POWER INPUT	JOCKEY PUMP*	P2 MAIN PUMP		P2 JOCKEY PUMP		METER KIT
			kW	HP	kW	HP	
1 KDN 50-250/250 30	3x400 V ~	JET 251 T	30	40	1,85	2,5	KDN 50 EN 12845

KDN UNI EN 12845 DIESEL ENGINE-DRIVEN PUMP

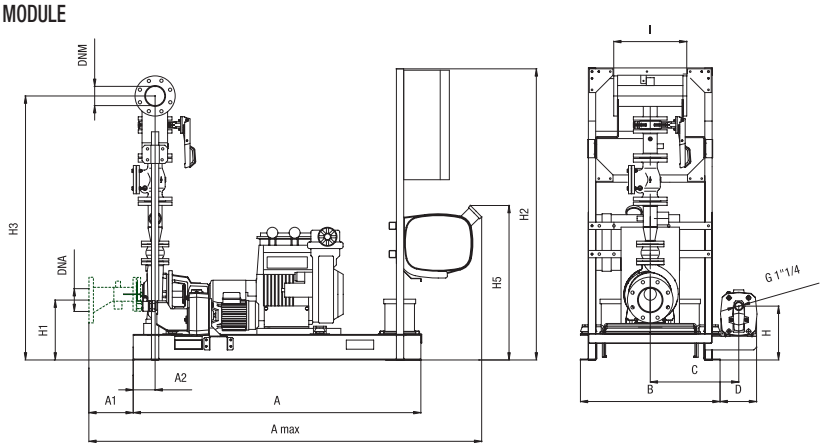
MODEL	BATTERY CHARGER POWER INPUT	JOCKEY PUMP*	** P2 DIESEL ENGINE-DRIVEN PUMP		P2 JOCKEY PUMP		METER KIT	FAN SURFACE
			kW	HP	kW	HP		
1 KDN 50-250/250 MD	1x220-240 V ~	JET 251 T	37	50	1,85	2,5	KDN 50 EN 12845	0,22 m^2

* Jockey pump on request.

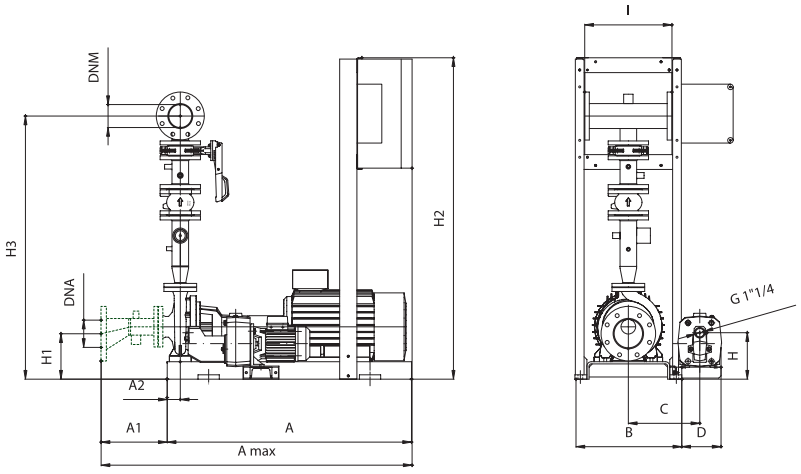
** ISO 3046 continuous power The motor is capable of delivering 10 % more of the power requested by the pump.

The performance curves are based on kinematic viscosity values = 1 mm^2/s and density equal to 1000 kg/m^3. Curve tolerance according to ISO 9906.

DIESEL ENGINE-DRIVEN PUMP MODULE



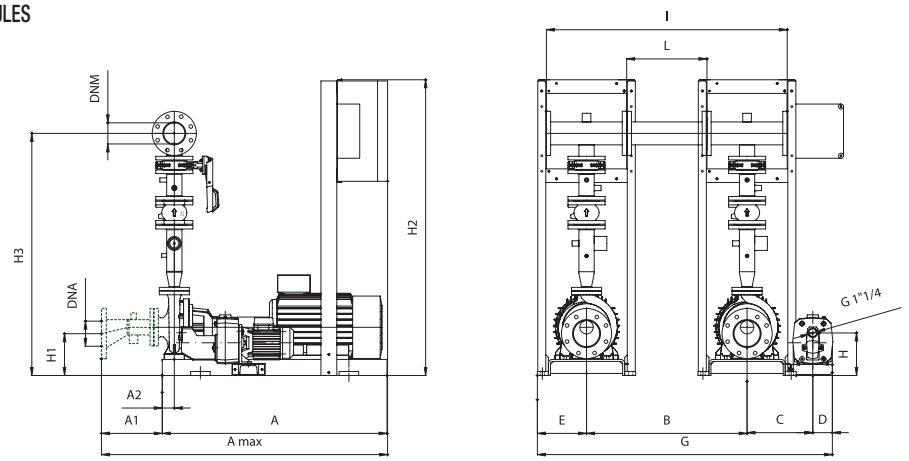
ELECTRIC PUMP MODULE



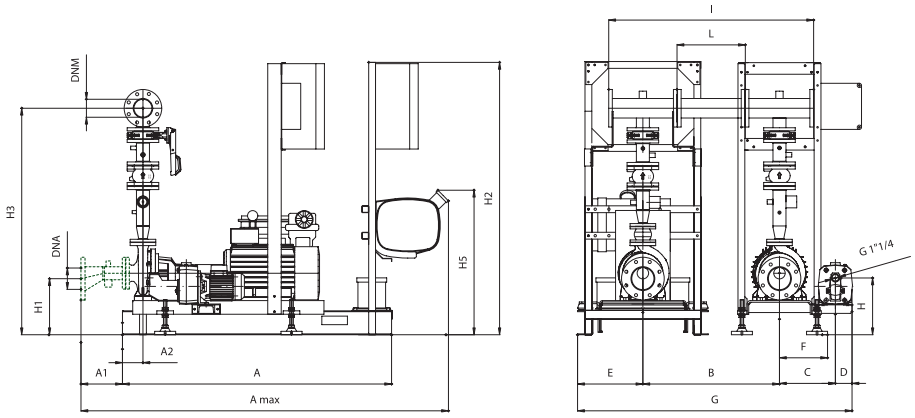
The dashed components are not included in the standard supply.

1 KDN 50-250/250 - UNI EN 12845 FIRE-FIGHTING PUMP SETS

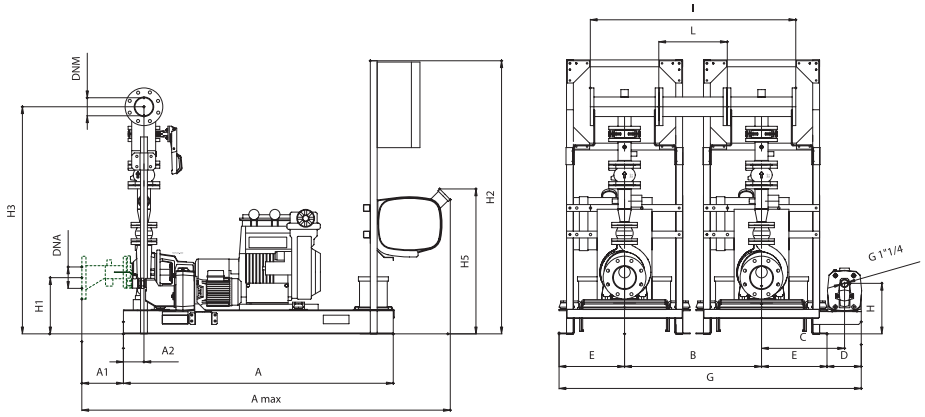
2 ELECTRIC PUMP MODULES



ELECTRIC PUMP + DIESEL ENGINE-DRIVEN PUMP MODULE



2 DIESEL ENGINE-DRIVEN PUMP MODULES

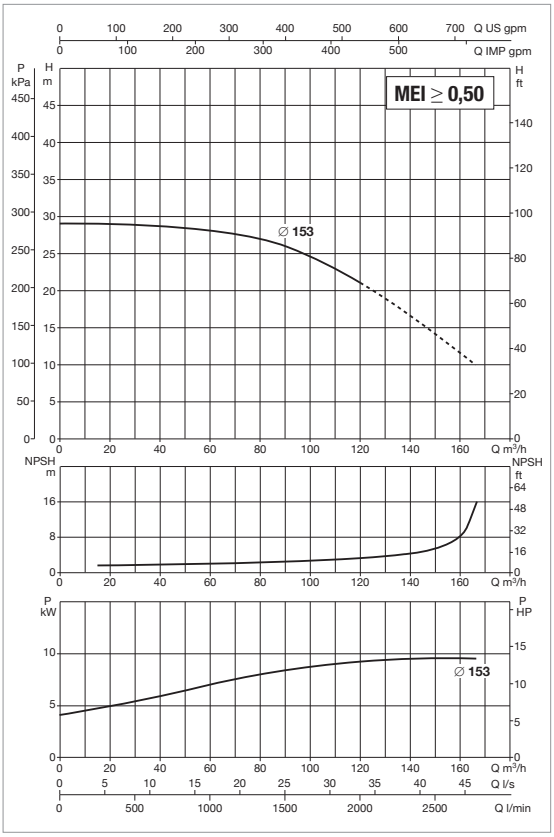


The dashed components are not included in the standard supply.

MODEL	A	A max	A1	A2	B	C	D	E	F	G	H	H1	H2	H3	H5	I	L	DNA	DNM	WEIGHT without jockey pump kg	WEIGHT with jockey pump kg
1 KDN 50-250/250 - DIESEL ENGINE DRIVEN PUMP MODULE	1576	2170	260	120	795	485	200	-	-	-	295	352	1600	1415	846	400	-	125	80	690	720
1 KDN 50-250/250 - ELECTRIC PUMP MODULE	1400	1700	300	75	590	377	180	-	-	-	220	272	1475	1335	-	400	-	125	80	550	580
1 KDN 50-250/250 - 2 ELECTRIC PUMP MODULES	1400	1700	300	75	800	377	100	270	-	1572	220	272	1475	1335	-	1200	400	125	80	550	580
1 KDN 50-250/250 - ELECTRIC PUMP + DIESEL ENGINE DRIVEN PUMP MODULE	1576	2170	260	120	800	352	100	383	307	1635	340	352	1600	1415	846	1200	400	125	80	690	580
1 KDN 50-250/250 - 2 DIESEL ENGINE DRIVEN PUMP MODULES	1576	2170	260	120	800	485	200	383	-	1766	295	352	1600	1415	846	1200	400	125	80	690	720

1 KDN 65-160/153- UNI EN 12845 FIRE-FIGHTING PUMP SETS

Pumped liquid temperature range: from -15 °C to +70 °C - Maximum ambient temperature: from +4 °C to +40 °C - Maximum flow rate: = 150 m^3/h



KDN UNI EN 12845 ELECTRIC PUMP

MODEL	POWER INPUT	JOCKEY PUMP*	P2 MAIN PUMP		P2 JOCKEY PUMP		METER KIT
			kW	HP	kW	HP	
1 KDN 65-160/153 11	3x400 V ~	JET 251 T	11	15	1,85	2,5	KDN 65 EN 12845

KDN UNI EN 12845 DIESEL ENGINE-DRIVEN PUMP

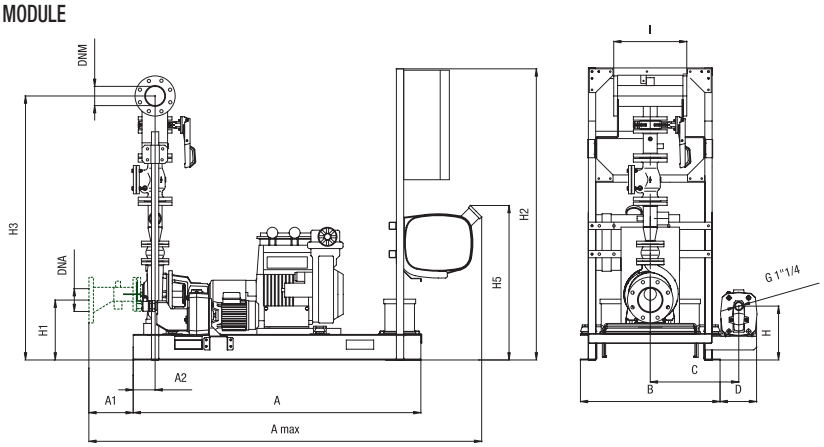
MODEL	BATTERY CHARGER POWER INPUT	JOCKEY PUMP*	** P2 DIESEL ENGINE-DRIVEN PUMP		P2 JOCKEY PUMP		METER KIT	FAN SURFACE
			kW	HP	kW	HP		
1 KDN 65-160/153 MD	1x220-240 V ~	JET 251 T	11	15	1,85	2,5	KDN 65 EN 12845	0,22 m^2

* Jockey pump on request.

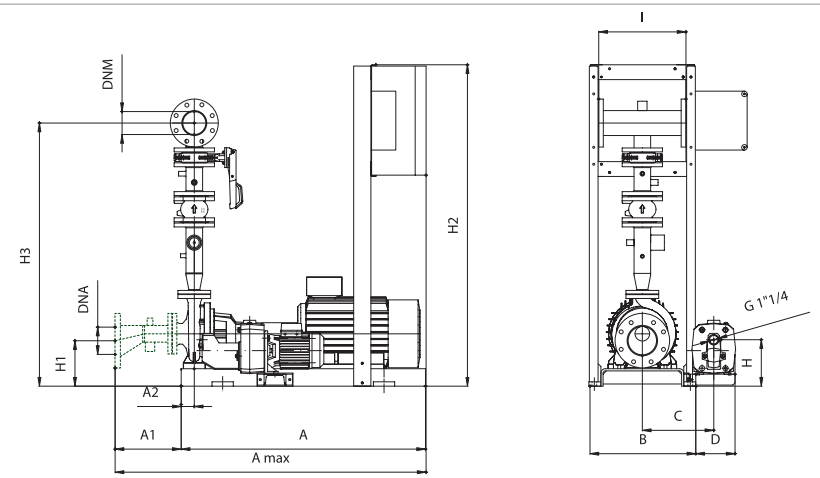
** ISO 3046 continuous power The motor is capable of delivering 10 % more of the power requested by the pump.

The performance curves are based on kinematic viscosity values = 1 mm^2/s and density equal to 1000 kg/m^3. Curve tolerance according to ISO 9906.

DIESEL ENGINE-DRIVEN PUMP MODULE



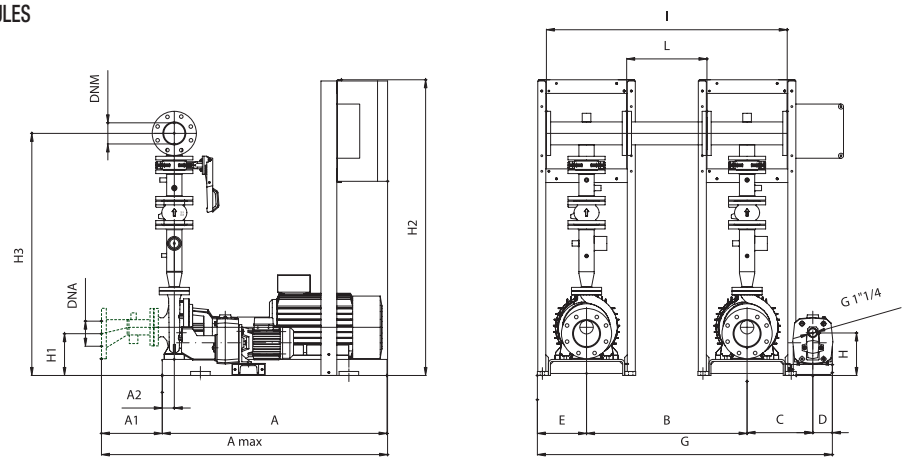
ELECTRIC PUMP MODULE



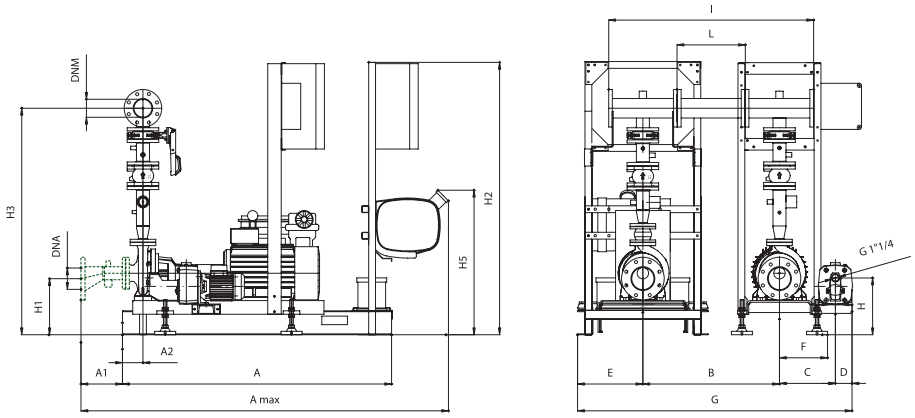
The dashed components are not included in the standard supply.

1 KDN 65-160/153 - UNI EN 12845 FIRE-FIGHTING PUMP SETS

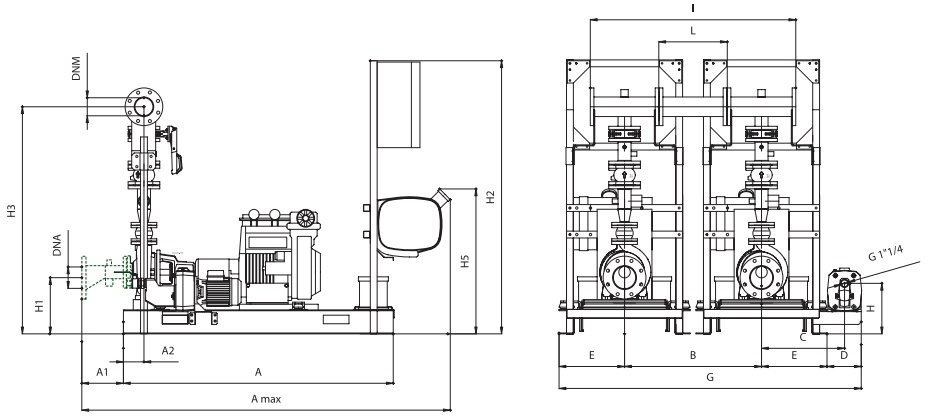
2 ELECTRIC PUMP MODULES



ELECTRIC PUMP + DIESEL ENGINE-DRIVEN PUMP MODULE



2 DIESEL ENGINE-DRIVEN PUMP MODULES

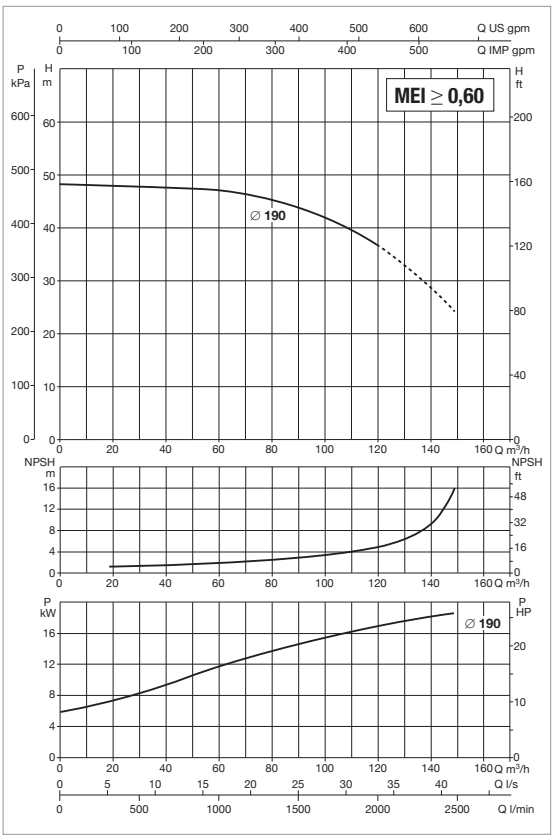


The dashed components are not included in the standard supply.

MODEL	A	A max	A1	A2	B	C	D	E	F	G	H	H1	H2	H3	H5	I	L	DNA	DNM	WEIGHT without jockey pump kg	WEIGHT with jockey pump kg
1 KDN 65-160/153 - DIESEL ENGINE DRIVEN PUMP MODULE	1576	2185	275	120	795	485	200	-	-	-	295	303	1600	1420	846	400	-	150	100	650	680
1 KDN 65-160/153 - ELECTRIC PUMP MODULE	1120	1145	330	60	490	327	180	-	-	-	220	203	1475	1325	-	400	-	150	100	440	470
1 KDN 65-160/153 - 2 ELECTRIC PUMP MODULES	1120	1145	330	60	800	327	100	245	-	1472	220	203	1475	1325	-	1200	400	150	100	440	470
1 KDN 65-160/153 - ELECTRIC PUMP + DIESEL ENGINE DRIVEN PUMP MODULE	1576	2185	275	120	800	327	100	383	282	1610	320	303	1600	1420	846	1200	400	150	100	650	470
1 KDN 65-160/153 - 2 DIESEL ENGINE DRIVEN PUMP MODULES	1576	2185	275	120	800	485	200	383	-	1766	295	303	1600	1420	846	1200	400	150	100	650	680

1 KDN 65-200/190 - UNI EN 12845 FIRE-FIGHTING PUMP SETS

Pumped liquid temperature range: from -15 °C to +70 °C - Maximum ambient temperature: from +4 °C to +40 °C - Maximum flow rate: = 150 m^3/h



KDN UNI EN 12845 ELECTRIC PUMP

MODEL	POWER INPUT	JOCKEY PUMP*	P2 MAIN PUMP		P2 JOCKEY PUMP		METER KIT
			kW	HP	kW	HP	
1 KDN 65-200/190 18,5	3x400 V ~	JET 251 T	18,5	25	1,85	2,5	KDN 65 EN 12845

KDN UNI EN 12845 DIESEL ENGINE-DRIVEN PUMP

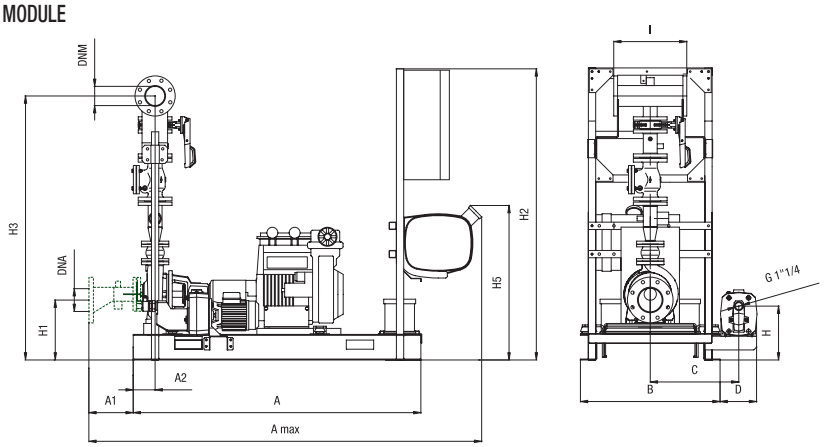
MODEL	BATTERY CHARGER POWER INPUT	JOCKEY PUMP*	** P2 DIESEL ENGINE-DRIVEN PUMP		P2 JOCKEY PUMP		METER KIT	FAN SURFACE
			kW	HP	kW	HP		
1 KDN 65-200/190 MD	1x220-240 V ~	JET 251 T	19	25	1,85	2,5	KDN 65 EN 12845	0,22 m^2

* Jockey pump on request.

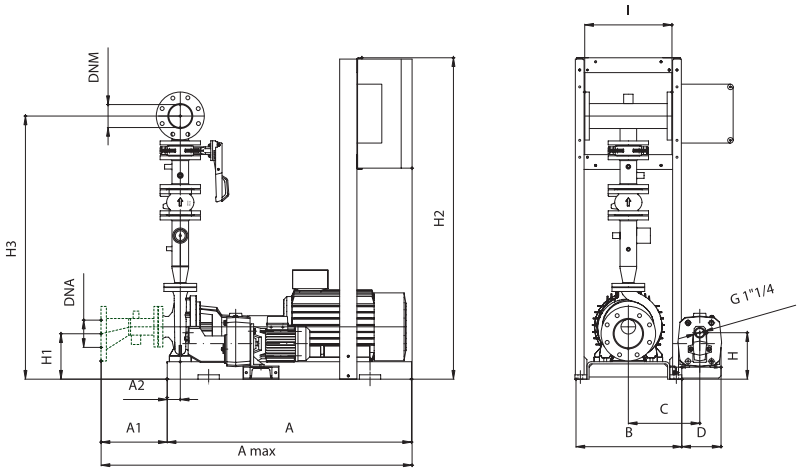
** ISO 3046 continuous power The motor is capable of delivering 10 % more of the power requested by the pump.

The performance curves are based on kinematic viscosity values = 1 mm^2/s and density equal to 1000 kg/m^3. Curve tolerance according to ISO 9906.

DIESEL ENGINE-DRIVEN PUMP MODULE



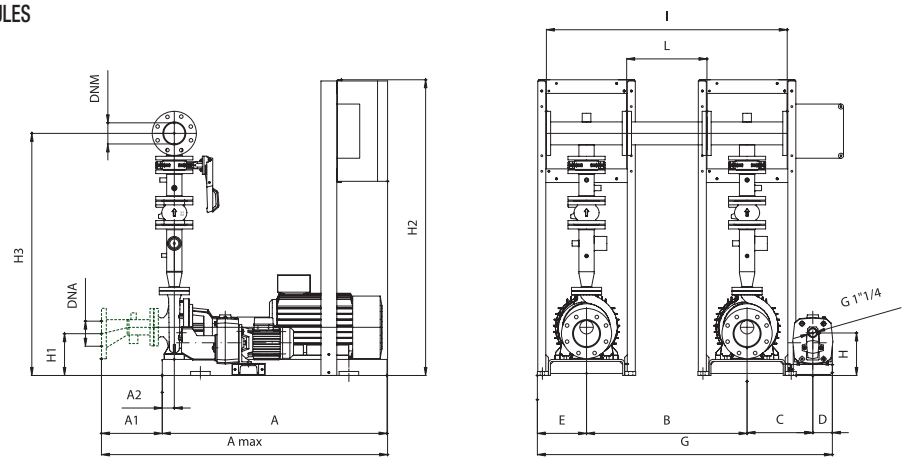
ELECTRIC PUMP MODULE



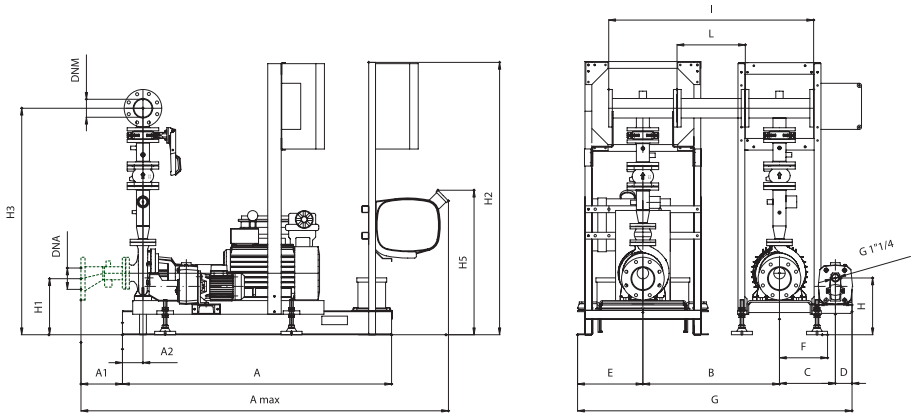
The dashed components are not included in the standard supply.

1 KDN 65-200/190 - UNI EN 12845 FIRE-FIGHTING PUMP SETS

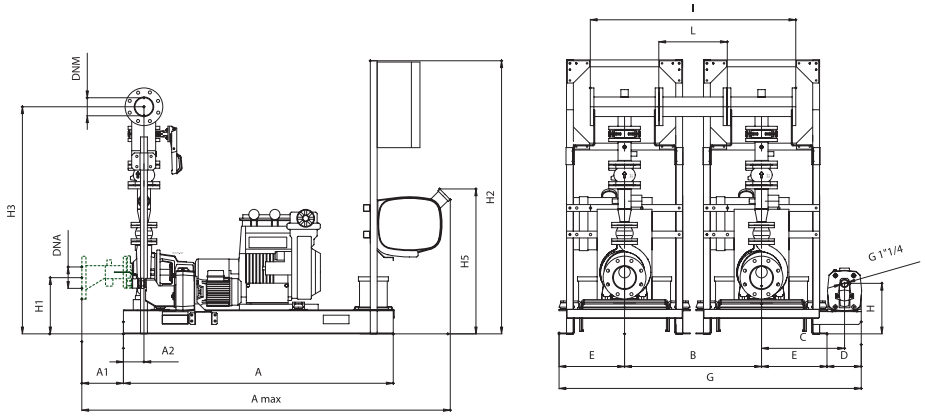
2 ELECTRIC PUMP MODULES



ELECTRIC PUMP + DIESEL ENGINE-DRIVEN PUMP MODULE



2 DIESEL ENGINE-DRIVEN PUMP MODULES

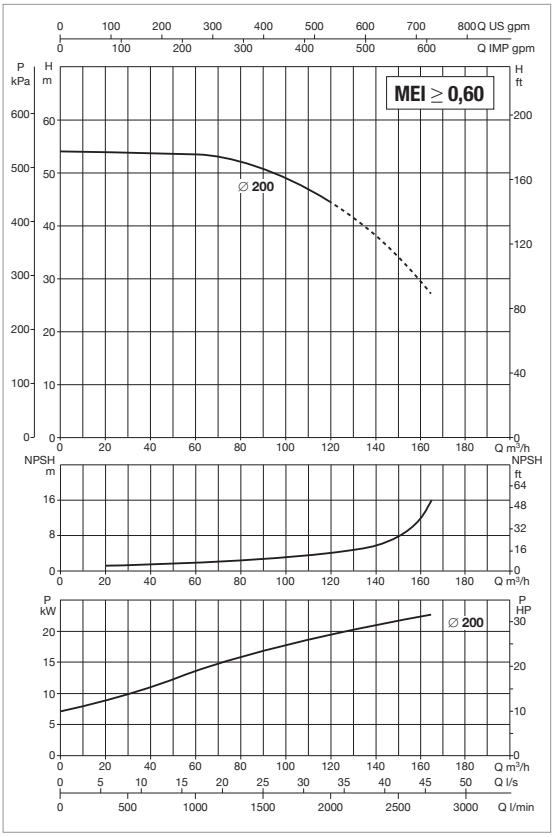


The dashed components are not included in the standard supply.

MODEL	A	A max	A1	A2	B	C	D	E	F	G	H	H1	H2	H3	H5	I	L	DNA	DNM	WEIGHT without jockey pump kg	WEIGHT with jockey pump kg
1 KDN 65-200/190 - DIESEL ENGINE DRIVEN PUMP MODULE	1576	2185	275	120	795	485	200	-	-	-	295	323	1600	1465	846	400	-	150	100	690	720
1 KDN 65-200/190 - ELECTRIC PUMP MODULE	1250	1565	315	75	540	352	180	-	-	-	220	223	1475	1365	-	400	-	150	100	520	550
1 KDN 65-200/190 - 2 ELECTRIC PUMP MODULES	1250	1565	315	75	800	352	100	270	-	1522	220	223	1475	1365	-	1200	400	150	100	520	550
1 KDN 65-200/190 - ELECTRIC PUMP + DIESEL ENGINE DRIVEN PUMP MODULE	1576	2185	275	120	800	352	100	383	307	1635	320	323	1600	1465	846	1200	400	150	100	690	550
1 KDN 65-200/190 - 2 DIESEL ENGINE DRIVEN PUMP MODULES	1576	2185	275	120	800	485	200	383	-	1766	295	323	1600	1465	846	1200	400	150	100	690	720

1 KDN 65-200/200 - UNI EN 12845 FIRE-FIGHTING PUMP SETS

Pumped liquid temperature range: from -15 °C to +70 °C - Maximum ambient temperature: from +4 °C to +40 °C - Maximum flow rate: = 150 m^3/h



KDN UNI EN 12845 ELECTRIC PUMP

MODEL	POWER INPUT	JOCKEY PUMP*	P2 MAIN PUMP		P2 JOCKEY PUMP		METER KIT
			kW	HP	kW	HP	
1 KDN 65-200/200 22	3x400 V ~	JET 251 T	22	30	1,85	2,5	KDN 65 EN 12845

KDN UNI EN 12845 DIESEL ENGINE-DRIVEN PUMP

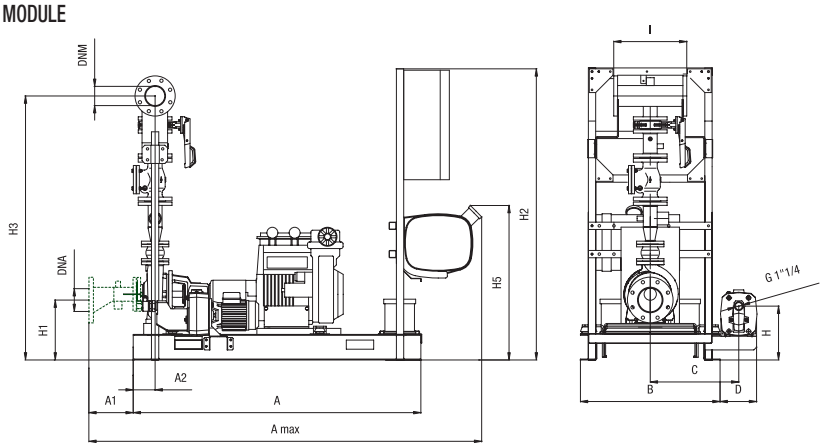
MODEL	BATTERY CHARGER POWER INPUT	JOCKEY PUMP*	** P2 DIESEL ENGINE-DRIVEN PUMP		P2 JOCKEY PUMP		METER KIT	FAN SURFACE
			kW	HP	kW	HP		
1 KDN 65-200/200 MD	1x220-240 V ~	JET 251 T	26	35	1,85	2,5	KDN 65 EN 12845	0,22 m^2

* Jockey pump on request.

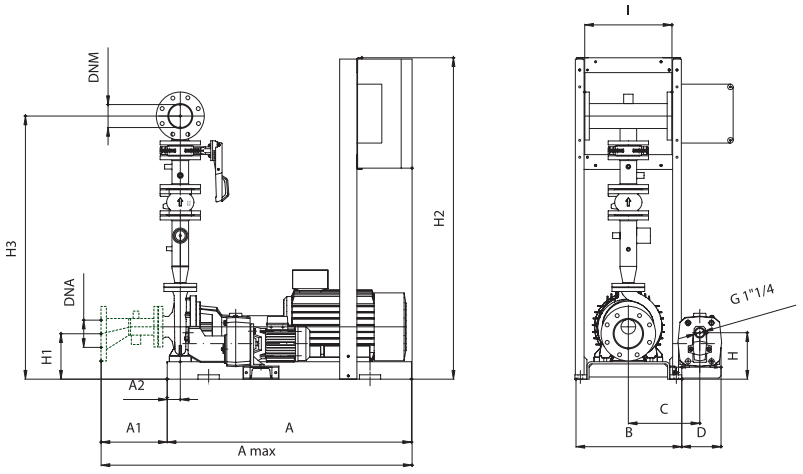
** ISO 3046 continuous power The motor is capable of delivering 10 % more of the power requested by the pump.

The performance curves are based on kinematic viscosity values = 1 mm^2/s and density equal to 1000 kg/m^3. Curve tolerance according to ISO 9906.

DIESEL ENGINE-DRIVEN PUMP MODULE



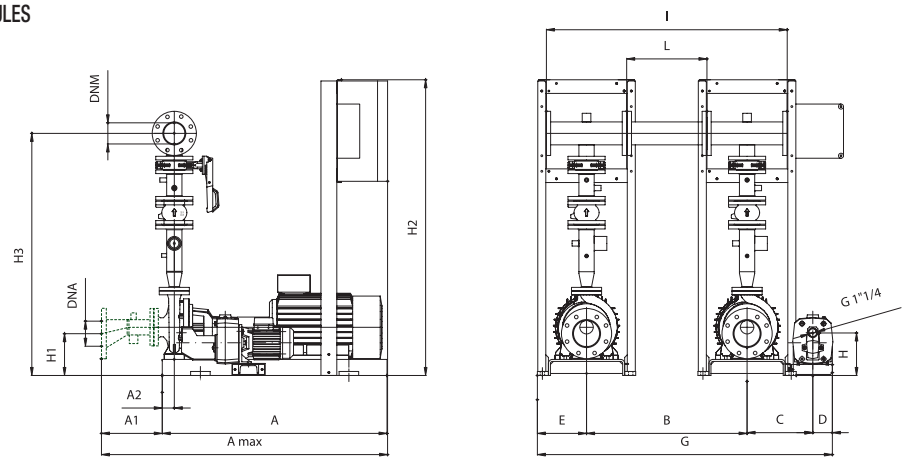
ELECTRIC PUMP MODULE



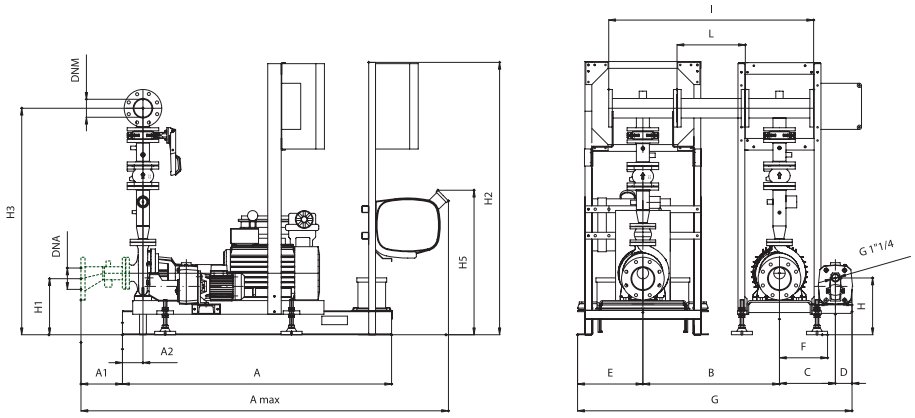
The dashed components are not included in the standard supply.

1 KDN 65-200/200 - UNI EN 12845 FIRE-FIGHTING PUMP SETS

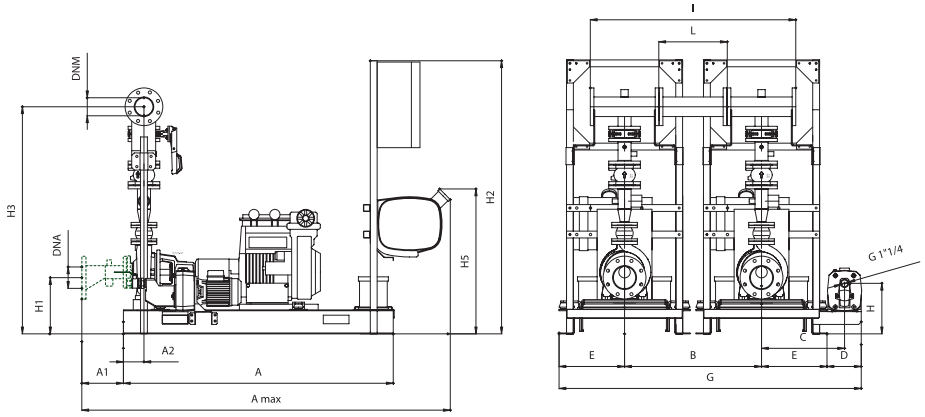
2 ELECTRIC PUMP MODULES



ELECTRIC PUMP + DIESEL ENGINE-DRIVEN PUMP MODULE



2 DIESEL ENGINE-DRIVEN PUMP MODULES

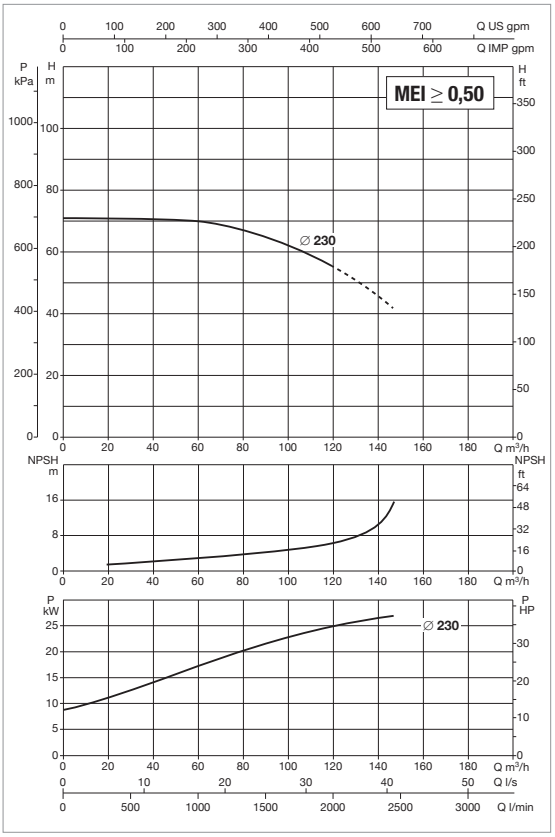


The dashed components are not included in the standard supply.

MODEL	A	A max	A1	A2	B	C	D	E	F	G	H	H1	H2	H3	H5	I	L	DNA	DNM	WEIGHT without jockey pump kg	WEIGHT with jockey pump kg
1 KDN 65-200/200 - DIESEL ENGINE DRIVEN PUMP MODULE	1576	2185	275	120	795	485	200	-	-	-	295	343	1600	1485	846	400	-	150	100	700	730
1 KDN 65-200/200 - ELECTRIC PUMP MODULE	1250	1565	315	75	540	352	180	-	-	-	220	223	1475	1365	-	400	-	150	100	520	550
1 KDN 65-200/200 - 2 ELECTRIC PUMP MODULES	1250	1565	315	75	800	352	100	270	-	1522	220	223	1475	1365	-	1200	400	150	100	520	550
1 KDN 65-200/200 - ELECTRIC PUMP + DIESEL ENGINE DRIVEN PUMP MODULE	1576	2185	275	120	800	377	100	383	307	1660	340	343	1600	1485	846	1200	400	150	100	700	650
1 KDN 65-200/200 - 2 DIESEL ENGINE DRIVEN PUMP MODULES	1576	2185	275	120	800	485	200	383	-	1766	295	343	1600	1485	846	1200	400	150	100	700	730

1 KDN 65-250/230 - UNI EN 12845 FIRE-FIGHTING PUMP SETS

Pumped liquid temperature range: from -15 °C to +70 °C - Maximum ambient temperature: from +4 °C to +40 °C - Maximum flow rate: = 160 m^3/h



KDN UNI EN 12845 ELECTRIC PUMP

MODEL	POWER INPUT	JOCKEY PUMP*	P2 MAIN PUMP		P2 JOCKEY PUMP		METER KIT
			kW	HP	kW	HP	
1 KDN 65-250/230 30	3x400 V ~	JET 251 T	30	40	1,85	2,5	KDN 65 EN 12845

KDN UNI EN 12845 DIESEL ENGINE-DRIVEN PUMP

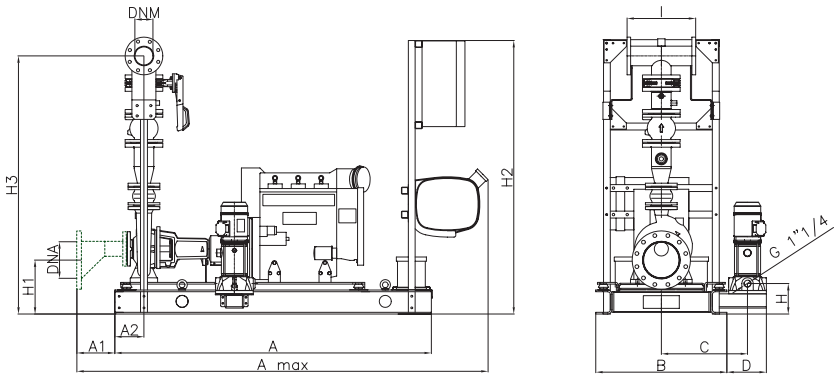
MODEL	BATTERY CHARGER POWER INPUT	JOCKEY PUMP*	** P2 DIESEL ENGINE-DRIVEN PUMP		P2 JOCKEY PUMP		METER KIT	FAN SURFACE
			kW	HP	kW	HP		
1 KDN 65-250/230 MD	1x220-240 V ~	JET 251 T	26	35	1,85	2,5	KDN 65 EN 12845	0,22 m^2

* Jockey pump on request.

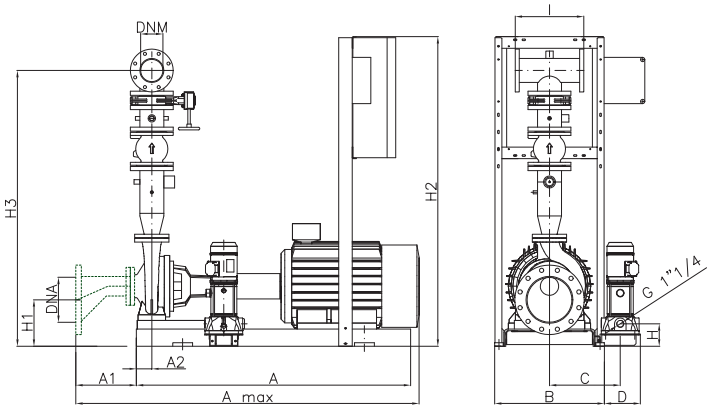
** ISO 3046 continuous power The motor is capable of delivering 10 % more of the power requested by the pump.

The performance curves are based on kinematic viscosity values = 1 mm^2/s and density equal to 1000 kg/m^3. Curve tolerance according to ISO 9906.

DIESEL ENGINE-DRIVEN PUMP MODULE



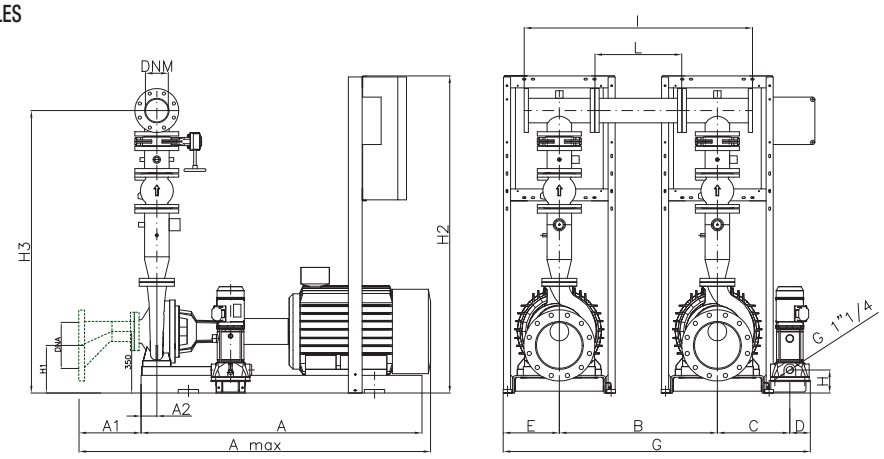
ELECTRIC PUMP MODULE



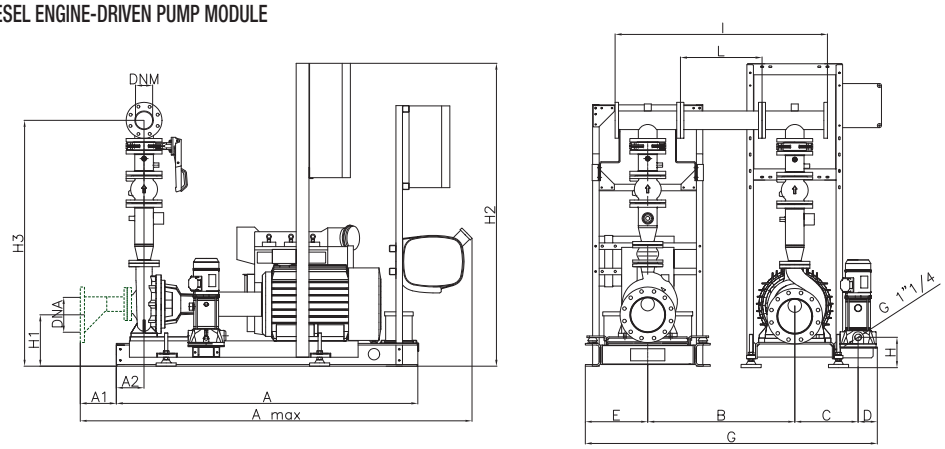
The dashed components are not included in the standard supply.

1 KDN 65-250/230 - UNI EN 12845 FIRE-FIGHTING PUMP SETS

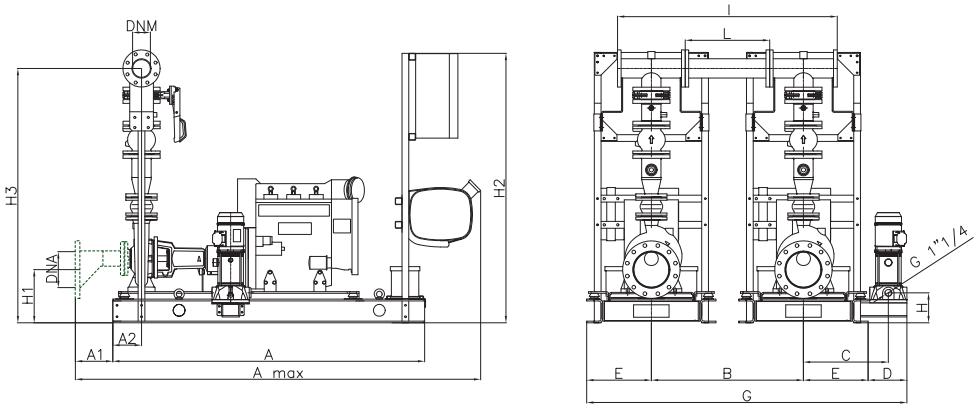
2 ELECTRIC PUMP MODULES



ELECTRIC PUMP + DIESEL ENGINE-DRIVEN PUMP MODULE



2 DIESEL ENGINE-DRIVEN PUMP MODULES

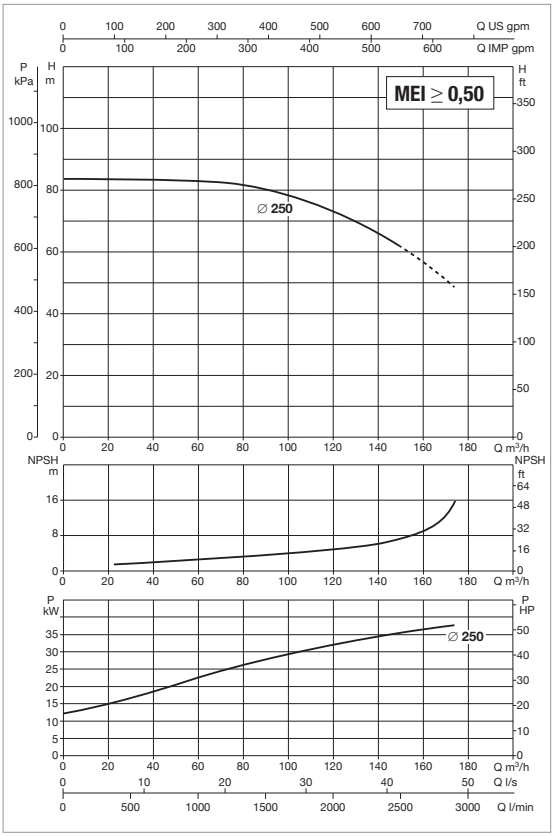


The dashed components are not included in the standard supply.

MODEL	A	A max	A1	A2	B	C	D	E	F	G	H	H1	H2	H3	I	L	DNA	DNM	WEIGHT without jockey pump kg	WEIGHT with jockey pump kg
1 KDN 65-250/230 - DIESEL ENGINE DRIVEN PUMP MODULE	1846	2400	209	170	765	505	242	-	-	-	178	340	1595	1505	400	-	150	100	730	760
1 KDN 65-250/230 - ELECTRIC PUMP MODULE	1400	1773	289	90	590	388	215	-	-	-	131	260	1800	1434	400	-	150	100	680	710
1 KDN 65-250/230 - 2 ELECTRIC PUMP MODULES	1400	1733	289	90	900	388	122	295	-	1705	131	260	1800	1434	1300	500	150	100	680	710
1 KDN 65-250/230 - ELECTRIC PUMP + DIESEL ENGINE DRIVEN PUMP MODULE	1846	2400	209	170	900	388	122	383	1793	-	211	340	1985	1505	1300	500	150	100	730	710
1 KDN 65-250/230 - 2 DIESEL ENGINE DRIVEN PUMP MODULES	1846	2400	209	170	900	505	242	383	383	-	178	340	1595	1505	1300	500	150	100	730	760

1 KDN 65-250/250 - UNI EN 12845 FIRE-FIGHTING PUMP SETS

Pumped liquid temperature range: from -15 °C to +70 °C - Maximum ambient temperature: from +4 °C to +40 °C - Maximum flow rate: = 160 m^3/h



KDN UNI EN 12845 ELECTRIC PUMP

MODEL	POWER INPUT	JOCKEY PUMP*	P2 MAIN PUMP		P2 JOCKEY PUMP		METER KIT
			kW	HP	kW	HP	
1 KDN 65-250/250 37	3x400 V ~	JET 251 T	37	50	1,85	2,5	KDN 65 EN 12845

KDN UNI EN 12845 DIESEL ENGINE-DRIVEN PUMP

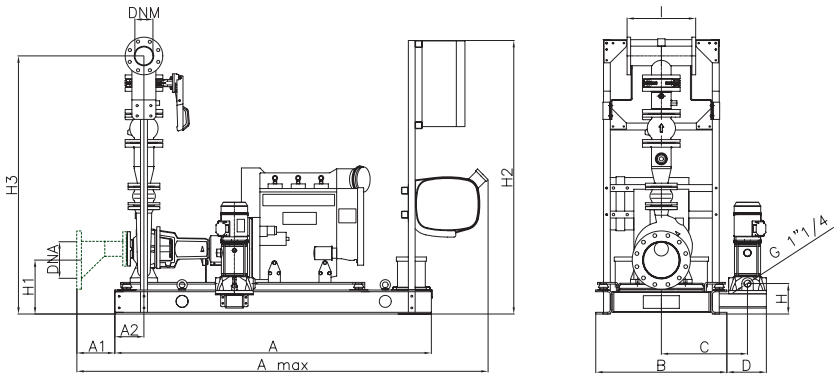
MODEL	BATTERY CHARGER POWER INPUT	JOCKEY PUMP*	** P2 DIESEL ENGINE-DRIVEN PUMP		P2 JOCKEY PUMP		METER KIT	FAN SURFACE
			kW	HP	kW	HP		
1 KDN 65-250/250 MD	1x220-240 V ~	JET 251 T	37	50	1,85	2,5	KDN 65 EN 12845	0,40 m^2

* Jockey pump on request.

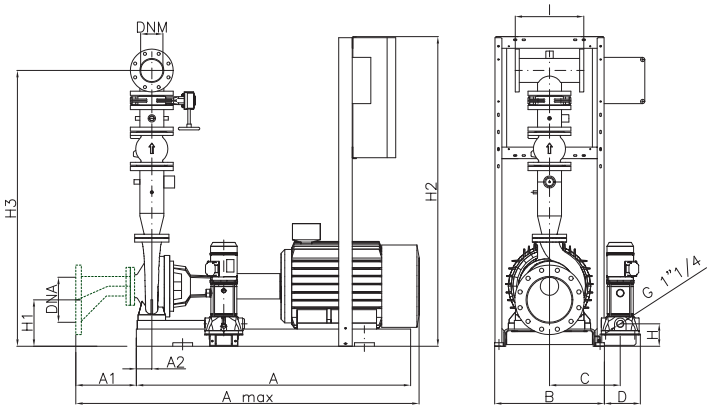
** ISO 3046 continuous power The motor is capable of delivering 10 % more of the power requested by the pump.

The performance curves are based on kinematic viscosity values = 1 mm^2/s and density equal to 1000 kg/m^3. Curve tolerance according to ISO 9906.

DIESEL ENGINE-DRIVEN PUMP MODULE



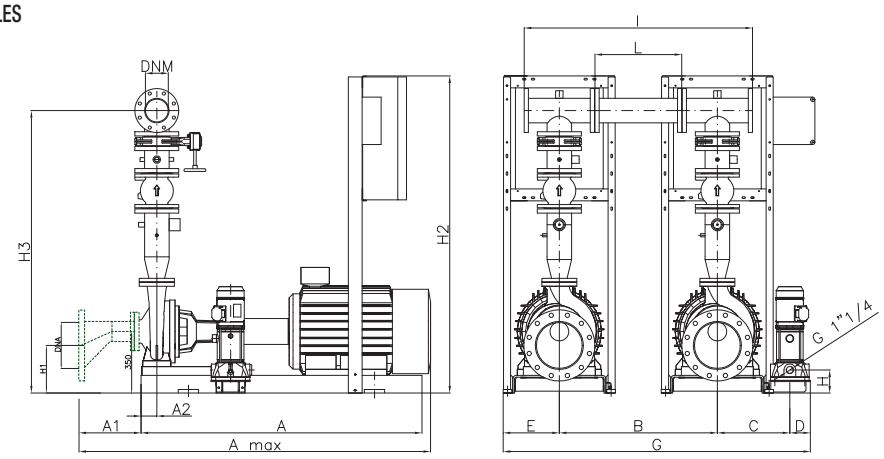
ELECTRIC PUMP MODULE



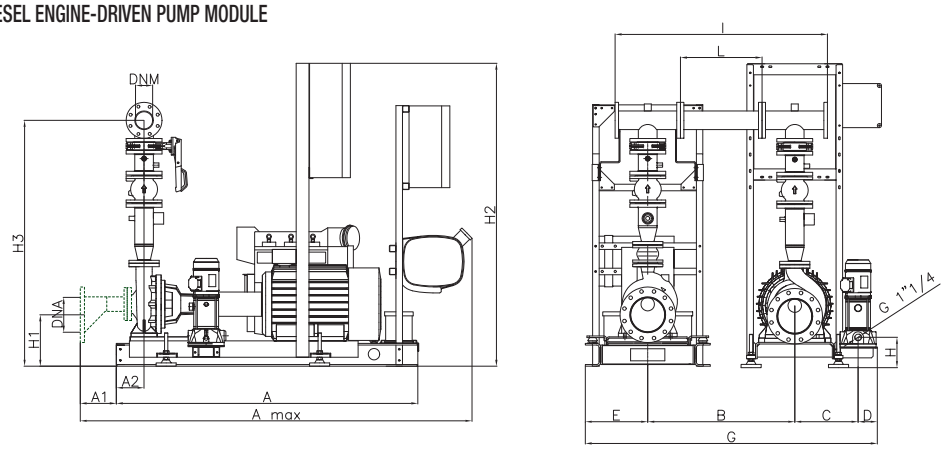
The dashed components are not included in the standard supply.

1 KDN 65-250/250 - UNI EN 12845 FIRE-FIGHTING PUMP SETS

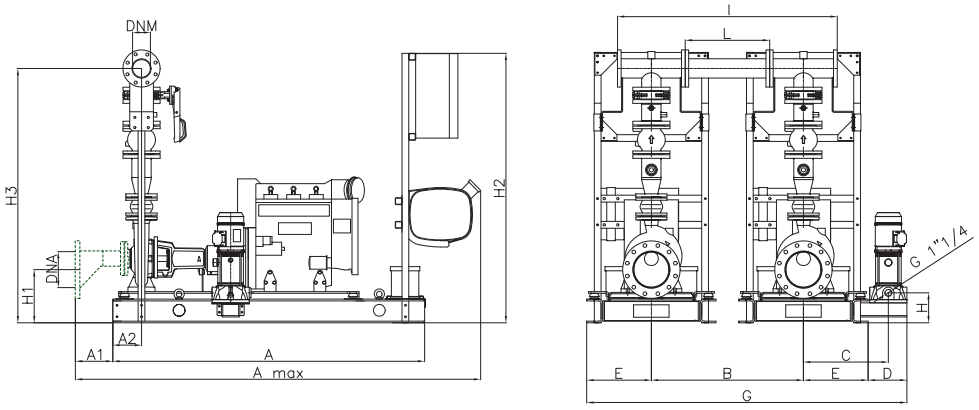
2 ELECTRIC PUMP MODULES



ELECTRIC PUMP + DIESEL ENGINE-DRIVEN PUMP MODULE



2 DIESEL ENGINE-DRIVEN PUMP MODULES

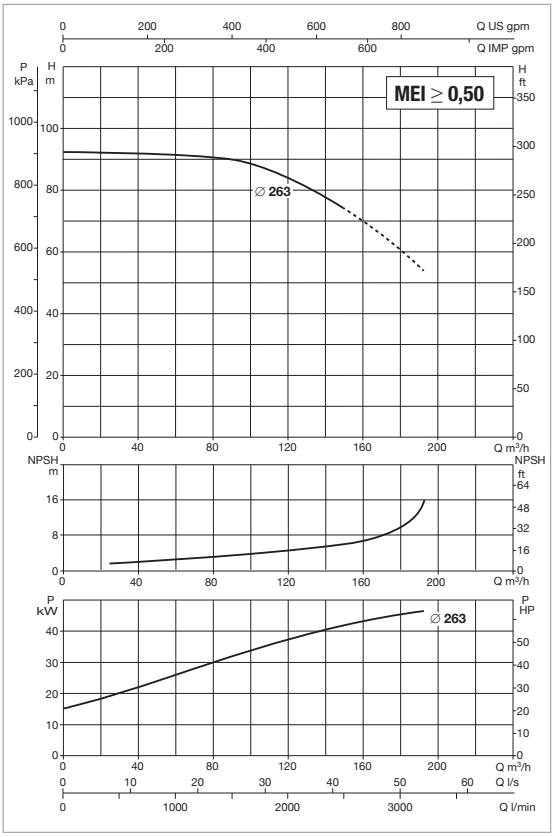


The dashed components are not included in the standard supply.

MODEL	A	A max	A1	A2	B	C	D	E	F	G	H	H1	H2	H3	I	L	DNA	DNM	WEIGHT without jockey pump kg	WEIGHT with jockey pump kg
1 KDN 65-250/250 - DIESEL ENGINE DRIVEN PUMP MODULE	1846	2400	209	170	765	505	242	-	-	-	178	340	1595	1505	400	-	150	100	800	830
1 KDN 65-250/250 - ELECTRIC PUMP MODULE	1400	1773	289	90	590	388	215	-	-	-	131	260	1800	1434	400	-	150	100	680	710
1 KDN 65-250/250 - 2 ELECTRIC PUMP MODULES	1400	1733	289	90	900	388	122	295	-	1705	131	260	1800	1434	1300	500	150	100	680	710
1 KDN 65-250/250 - ELECTRIC PUMP + DIESEL ENGINE DRIVEN PUMP MODULE	1846	2400	209	170	900	388	122	383	1793	-	186	340	1855	1505	1300	500	150	100	800	790
1 KDN 65-250/250 - 2 DIESEL ENGINE DRIVEN PUMP MODULES	1846	2400	209	170	900	505	242	383	383	-	178	340	1595	1505	1300	500	150	100	800	830

1 KDN 65-250/263 - UNI EN 12845 FIRE-FIGHTING PUMP SETS

Pumped liquid temperature range: from -15 °C to +70 °C - Maximum ambient temperature: from +4 °C to +40 °C - Maximum flow rate: = 160 m^3/h



KDN UNI EN 12845 ELECTRIC PUMP

MODEL	POWER INPUT	JOCKEY PUMP*	P2 MAIN PUMP		P2 JOCKEY PUMP		METER KIT
			kW	HP	kW	HP	
1 KDN 65-250/263 45	3x400 V ~	JET 251 T	45	60	1,85	2,5	KDN 65 EN 12845

KDN UNI EN 12845 DIESEL ENGINE-DRIVEN PUMP

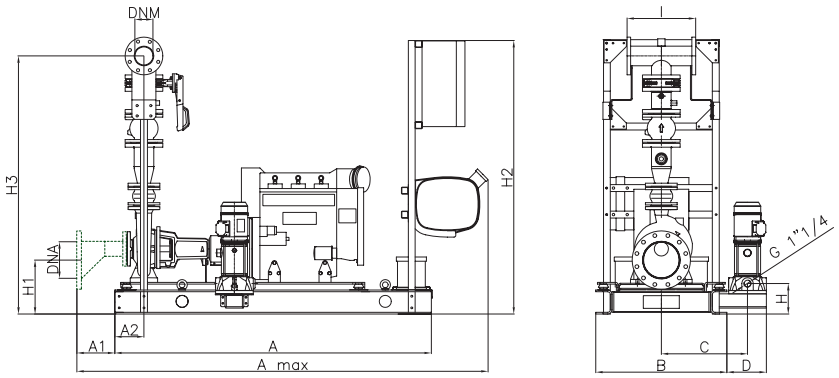
MODEL	BATTERY CHARGER POWER INPUT	JOCKEY PUMP*	** P2 DIESEL ENGINE-DRIVEN PUMP		P2 JOCKEY PUMP		METER KIT	FAN SURFACE
			kW	HP	kW	HP		
1 KDN 65-250/263 MD	1x220-240 V ~	JET 251 T	53	64	1,85	2,5	KDN 65 EN 12845	0,40 m^2

* Jockey pump on request.

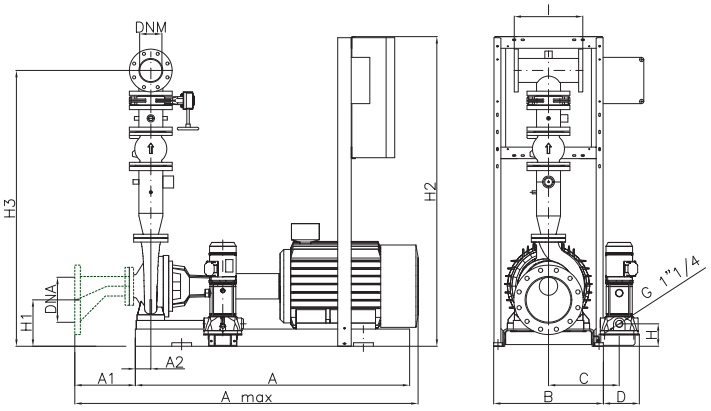
** ISO 3046 continuous power The motor is capable of delivering 10 % more of the power requested by the pump.

The performance curves are based on kinematic viscosity values = 1 mm^2/s and density equal to 1000 kg/m^3. Curve tolerance according to ISO 9906.

DIESEL ENGINE-DRIVEN PUMP MODULE



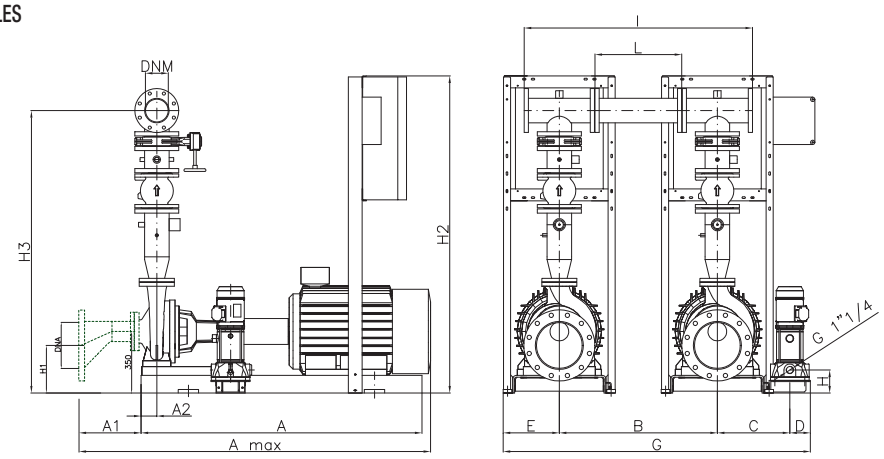
ELECTRIC PUMP MODULE



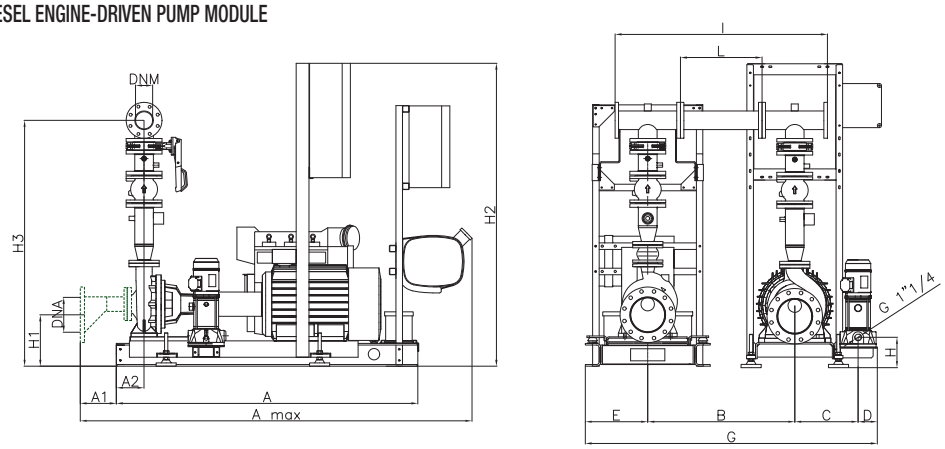
The dashed components are not included in the standard supply.

1 KDN 65-250/263 - UNI EN 12845 FIRE-FIGHTING PUMP SETS

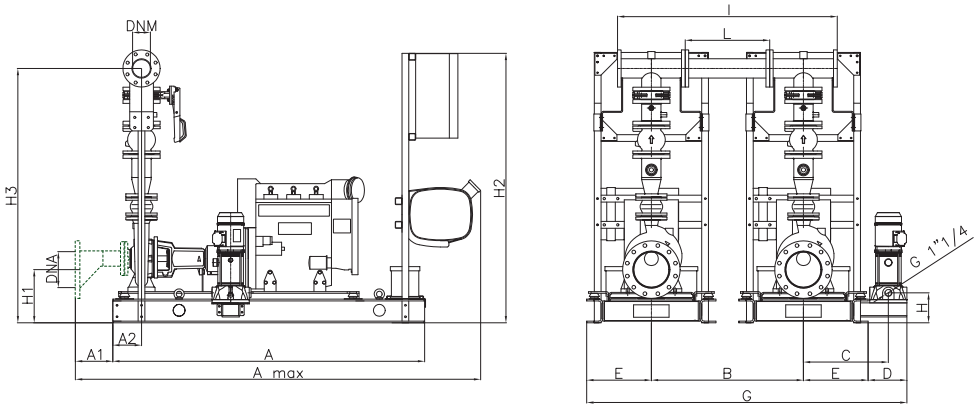
2 ELECTRIC PUMP MODULES



ELECTRIC PUMP + DIESEL ENGINE-DRIVEN PUMP MODULE



2 DIESEL ENGINE-DRIVEN PUMP MODULES

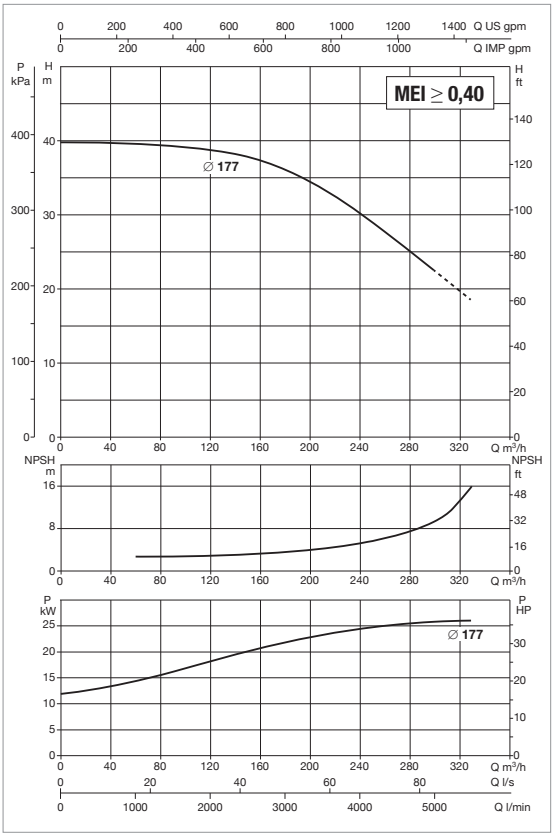


The dashed components are not included in the standard supply.

MODEL	A	A max	A1	A2	B	C	D	E	F	G	H	H1	H2	H3	I	L	DNA	DNM	WEIGHT without jockey pump kg	WEIGHT with jockey pump kg
1 KDN 65-250/263 - DIESEL ENGINE DRIVEN PUMP MODULE	1846	2400	209	170	765	505	242	-	-	-	178	340	1595	1505	400	-	150	100	800	830
1 KDN 65-250/263 - ELECTRIC PUMP MODULE	1400	1828	289	90	590	388	215	-	-	-	131	285	1800	1460	400	-	150	100	760	790
1 KDN 65-250/263 - 2 ELECTRIC PUMP MODULES	1400	1828	289	90	900	388	122	295	-	1705	131	285	1800	1460	1300	500	150	100	760	790
1 KDN 65-250/263 - ELECTRIC PUMP + DIESEL ENGINE DRIVEN PUMP MODULE	1846	2400	209	170	900	388	122	383	1793	-	186	340	1855	1505	1300	500	150	100	800	790
1 KDN 65-250/263 - 2 DIESEL ENGINE DRIVEN PUMP MODULES	1846	2400	209	170	900	505	242	383	383	-	178	340	1595	1505	1300	500	150	100	800	830

1 KDN 80-160/177 - UNI EN 12845 FIRE-FIGHTING PUMP SETS

Pumped liquid temperature range: from -15 °C to +70 °C - Maximum ambient temperature: from +4 °C to +40 °C - Maximum flow rate: = 250 m3/h



KDN UNI EN 12845 ELECTRIC PUMP

MODEL	POWER INPUT	JOCKEY PUMP*	P2 MAIN PUMP		P2 JOCKEY PUMP		METER KIT
			kW	HP	kW	HP	
1 KDN 80-160/177 30	3x400 V ~	KVCX 65/80 T	30	40	2,2	3	KDN 80 EN 12845

KDN UNI EN 12845 DIESEL ENGINE-DRIVEN PUMP

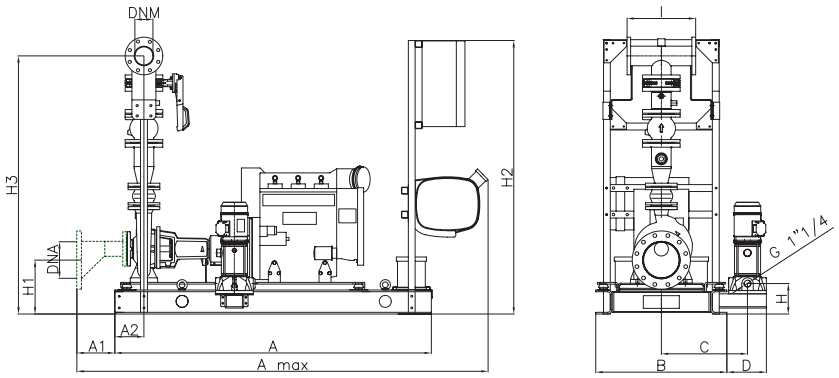
MODEL	BATTERY CHARGER POWER INPUT	JOCKEY PUMP*	** P2 DIESEL ENGINE-DRIVEN PUMP		P2 JOCKEY PUMP		METER KIT	FAN SURFACE
			kW	HP	kW	HP		
1 KDN 80-160/177 MD	1x220-240 V ~	KVCX 65/80 T	26	35	2,2	3	KDN 80 EN 12845	0,22 m²

* Jockey pump on request.

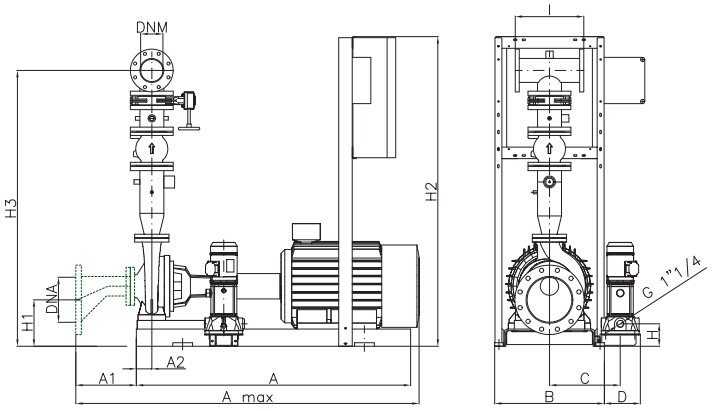
** ISO 3046 continuous power The motor is capable of delivering 10 % more of the power requested by the pump.

The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

DIESEL ENGINE-DRIVEN PUMP MODULE



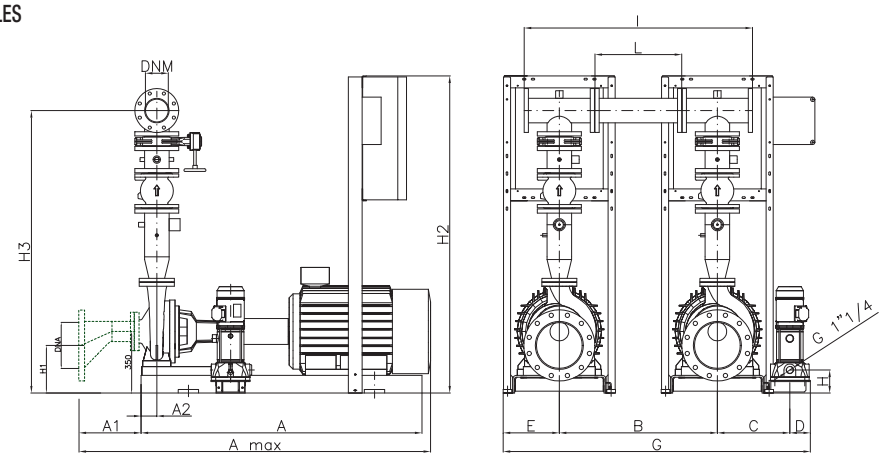
ELECTRIC PUMP MODULE



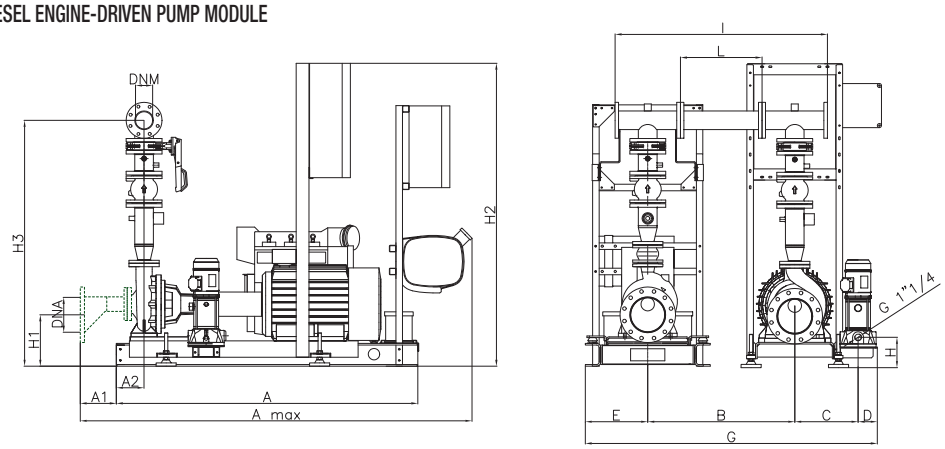
The dashed components are not included in the standard supply.

1 KDN 80-160/177 - UNI EN 12845 FIRE-FIGHTING PUMP SETS

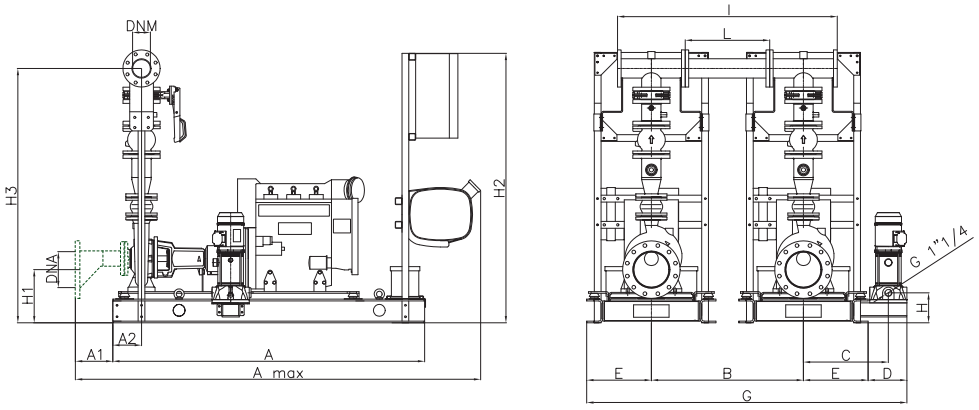
2 ELECTRIC PUMP MODULES



ELECTRIC PUMP + DIESEL ENGINE-DRIVEN PUMP MODULE



2 DIESEL ENGINE-DRIVEN PUMP MODULES

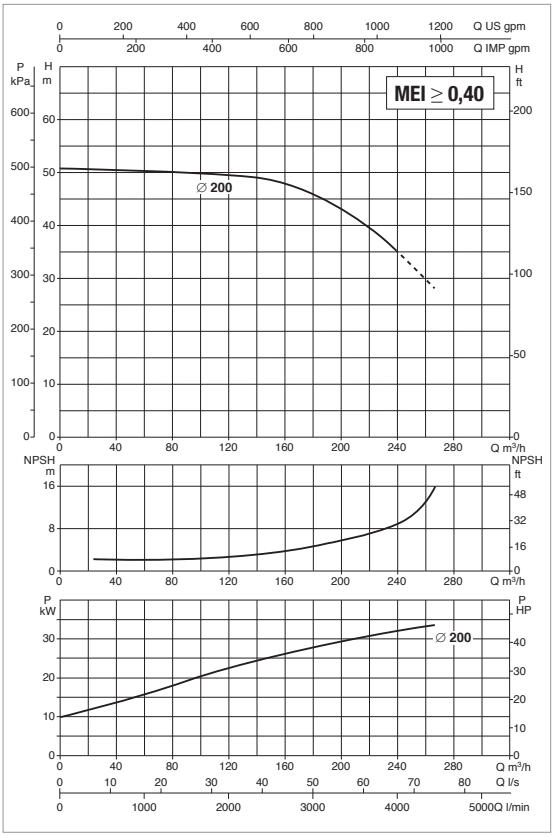


The dashed components are not included in the standard supply.

MODEL	A	A max	A1	A2	B	C	D	E	F	G	H	H1	H2	H3	I	L	DNA	DNM	WEIGHT without jockey pump kg	WEIGHT with jockey pump kg
1 KDN 80-160/177 - DIESEL ENGINE DRIVEN PUMP MODULE	1846	2370	167	250	765	505	242	-	-	-	178	328	1595	1575	400	-	200	125	800	830
1 KDN 80-160/177 - ELECTRIC PUMP MODULE	1400	1743	342	75	590	388	215	-	-	-	131	248	1800	1504	400	-	200	125	720	750
1 KDN 80-160/177 - 2 ELECTRIC PUMP MODULES	1400	1743	342	75	900	388	122	295	-	1705	131	248	1800	1504	1300	500	200	125	720	750
1 KDN 80-160/177 - ELECTRIC PUMP + DIESEL ENGINE DRIVEN PUMP MODULE	1846	2370	167	250	900	388	122	383	1793	-	211	328	1880	1575	1300	500	200	125	800	750
1 KDN 80-160/177 - 2 DIESEL ENGINE DRIVEN PUMP MODULES	1846	2370	167	250	900	505	242	383	383	-	178	328	1595	1575	1300	500	200	125	800	830

1 KDN 80-200/200 - UNI EN 12845 FIRE-FIGHTING PUMP SETS

Pumped liquid temperature range: from -15 °C to +70 °C - Maximum ambient temperature: from +4 °C to +40 °C - Maximum flow rate: = 250 m^3/h



KDN UNI EN 12845 ELECTRIC PUMP

MODEL	POWER INPUT	JOCKEY PUMP*	P2 MAIN PUMP		P2 JOCKEY PUMP		METER KIT
			kW	HP	kW	HP	
1 KDN 80-200/200 37	3x400 V ~	KVCX 65/80 T	37	50	2,2	3	KDN 80 EN 12845

KDN UNI EN 12845 DIESEL ENGINE-DRIVEN PUMP

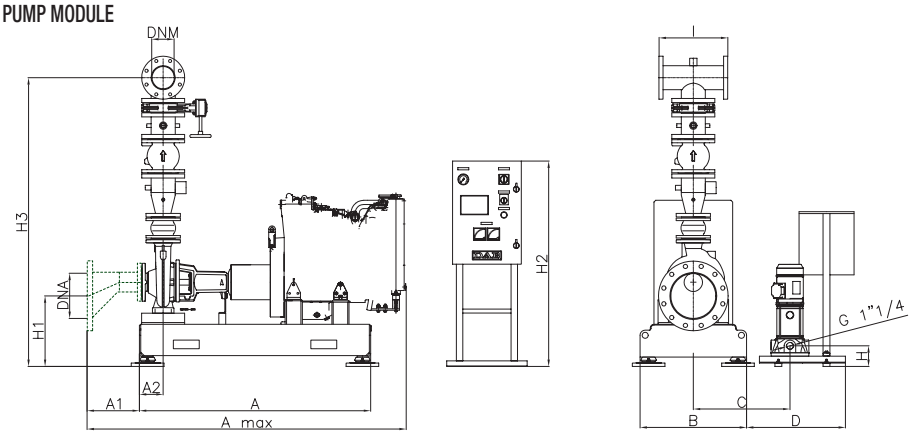
MODEL	BATTERY CHARGER POWER INPUT	JOCKEY PUMP*	** P2 DIESEL ENGINE-DRIVEN PUMP		P2 JOCKEY PUMP		METER KIT	FAN SURFACE
			kW	HP	kW	HP		
1 KDN 80-200/200 MD	1x220-240 V ~	KVCX 65/80 T	37	50	2,2	3	KDN 80 EN 12845	0,40 m^2

* Jockey pump on request.

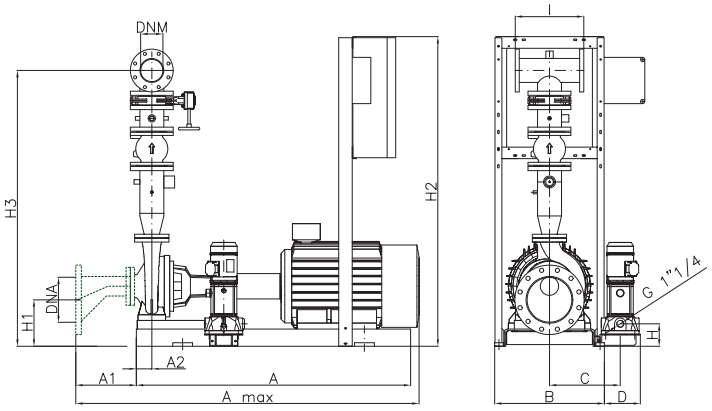
** ISO 3046 continuous power The motor is capable of delivering 10 % more of the power requested by the pump.

The performance curves are based on kinematic viscosity values = 1 mm^2/s and density equal to 1000 kg/m^3. Curve tolerance according to ISO 9906.

DIESEL ENGINE-DRIVEN PUMP MODULE



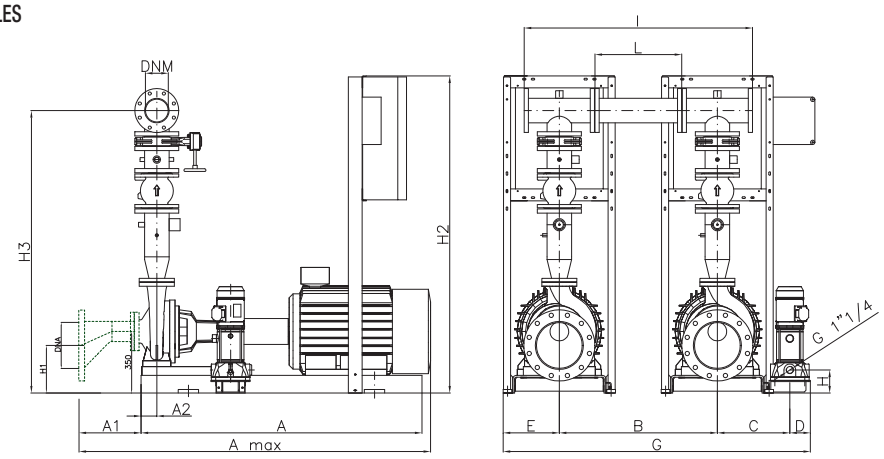
ELECTRIC PUMP MODULE



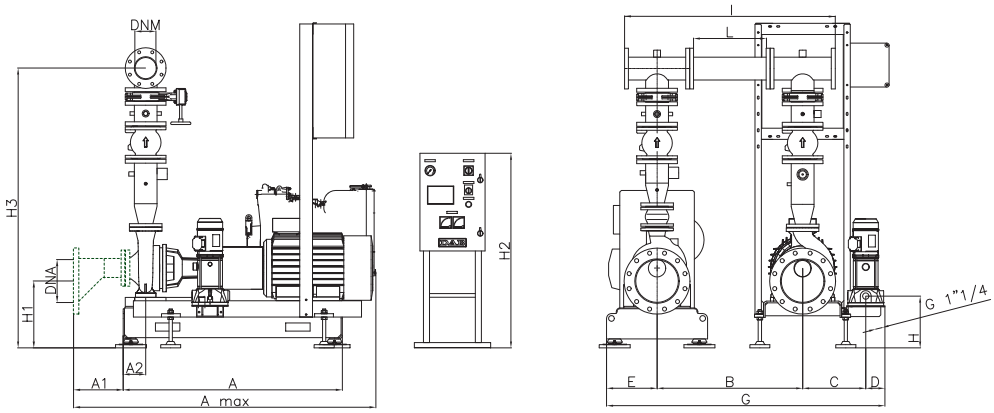
The dashed components are not included in the standard supply.

1 KDN 80-200/200 - UNI EN 12845 FIRE-FIGHTING PUMP SETS

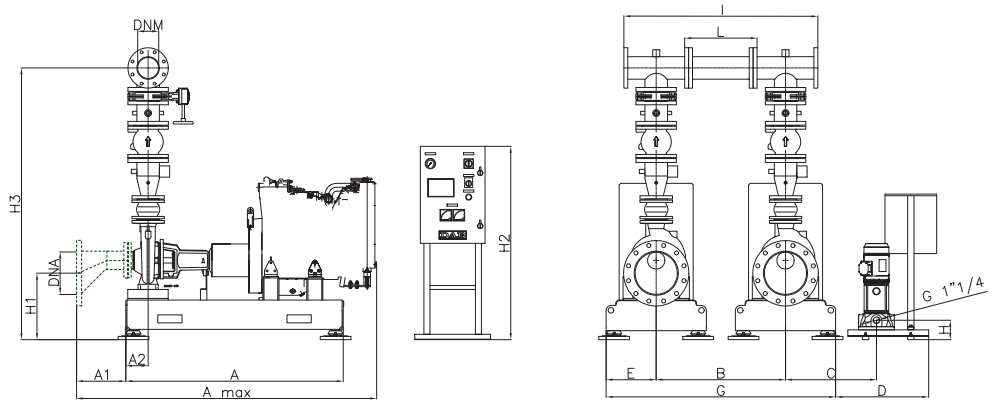
2 ELECTRIC PUMP MODULES



ELECTRIC PUMP + DIESEL ENGINE-DRIVEN PUMP MODULE



2 DIESEL ENGINE-DRIVEN PUMP MODULES

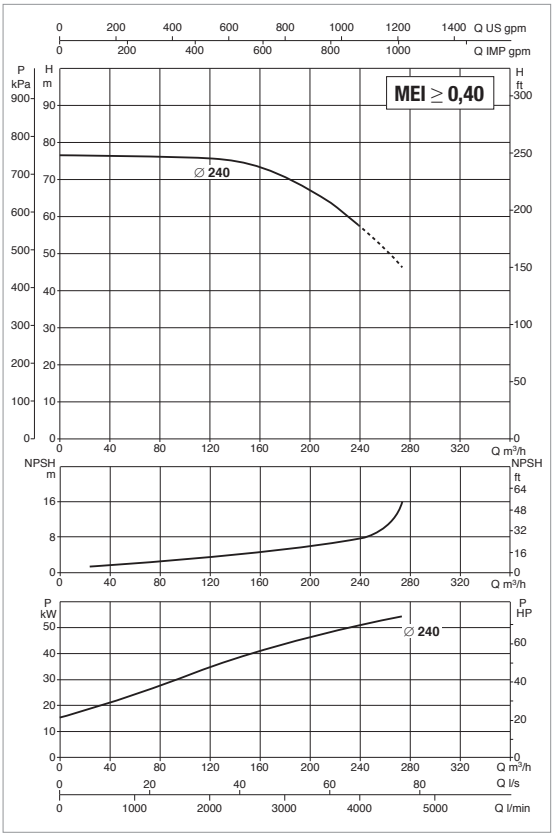


The dashed components are not included in the standard supply.

MODEL	A	A max	A1	A2	B	C	D	E	F	G	H	H1	H2	H3	I	L	DNA	DNM	WEIGHT without jockey pump kg	WEIGHT with jockey pump kg
1 KDN 80-200/200 - DIESEL ENGINE DRIVEN PUMP MODULE	1346	1834	278	139	620	562	575	-	-	-	120	438	1200	1680	400	-	200	125	930	960
1 KDN 80-200/200 - ELECTRIC PUMP MODULE	1400	1811	342	75	590	388	215	-	-	-	131	248	1800	1528	400	-	200	125	750	780
1 KDN 80-200/200 - 2 ELECTRIC PUMP MODULES	1400	1811	342	75	900	388	122	295	-	1705	131	248	1800	1528	1300	500	200	125	750	780
1 KDN 80-200/200 - ELECTRIC PUMP + DIESEL ENGINE DRIVEN PUMP MODULE	1346	1860	304	139	900	388	122	310	-	1720	321	438	1200	1680	1300	500	200	125	930	780
1 KDN 80-200/200 - 2 DIESEL ENGINE DRIVEN PUMP MODULES	1346	1843	278	139	900	562	575	310	-	1520	120	438	1200	1680	1300	500	200	125	930	960

1 KDN 80-250/240 - UNI EN 12845 FIRE-FIGHTING PUMP SETS

Pumped liquid temperature range: from -15 °C to +70 °C - Maximum ambient temperature: from +4 °C to +40 °C - Maximum flow rate: = 280 m^3/h



KDN UNI EN 12845 ELECTRIC PUMP

MODEL	POWER INPUT	JOCKEY PUMP*	P2 MAIN PUMP		P2 JOCKEY PUMP		METER KIT
			kW	HP	kW	HP	
1 KDN 80-250/240 55	3x400 V ~	KVCX 65/80 T	55	75	2,2	3	KDN 80 EN 12845

KDN UNI EN 12845 DIESEL ENGINE-DRIVEN PUMP

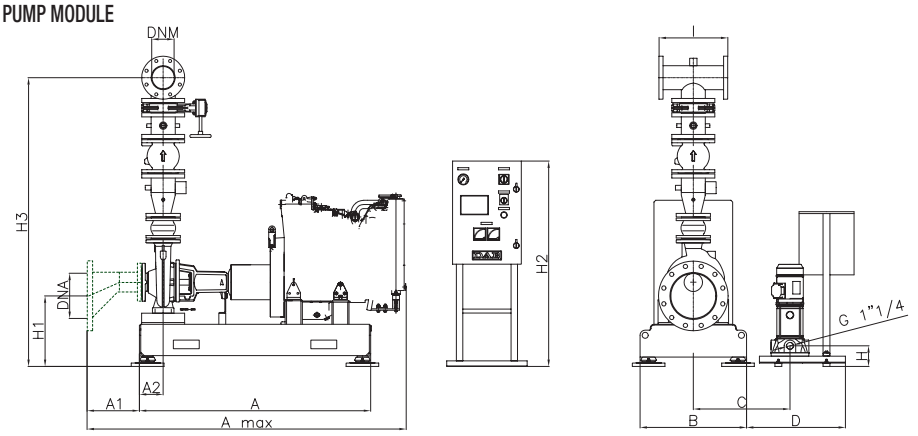
MODEL	BATTERY CHARGER POWER INPUT	JOCKEY PUMP*	** P2 DIESEL ENGINE-DRIVEN PUMP		P2 JOCKEY PUMP		METER KIT	FAN SURFACE
			kW	HP	kW	HP		
1 KDN 80-250/240 MD	1x220-240 V ~	KVCX 65/80 T	73,5	91	2,2	3	KDN 80 EN 12845	0,40 m^2

* Jockey pump on request.

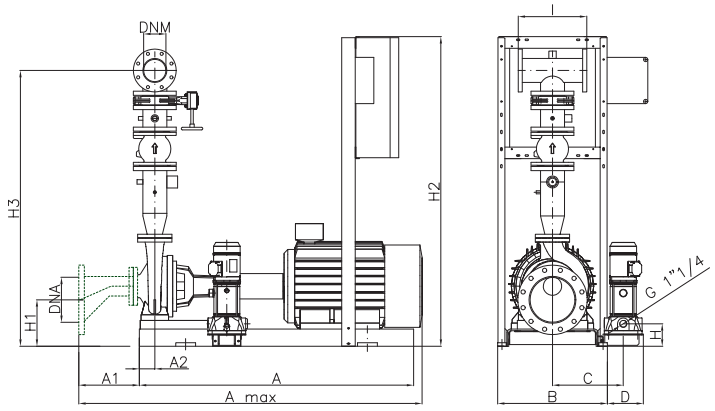
** ISO 3046 continuous power The motor is capable of delivering 10 % more of the power requested by the pump.

The performance curves are based on kinematic viscosity values = 1 mm^2/s and density equal to 1000 kg/m^3. Curve tolerance according to ISO 9906.

DIESEL ENGINE-DRIVEN PUMP MODULE



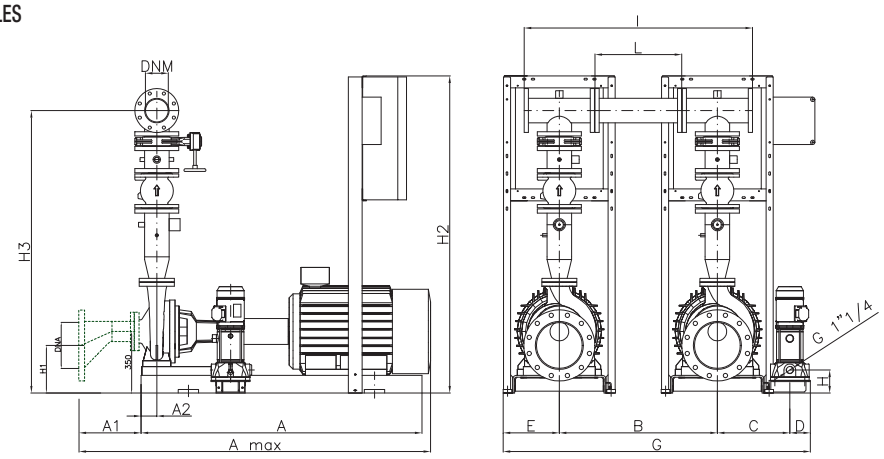
ELECTRIC PUMP MODULE



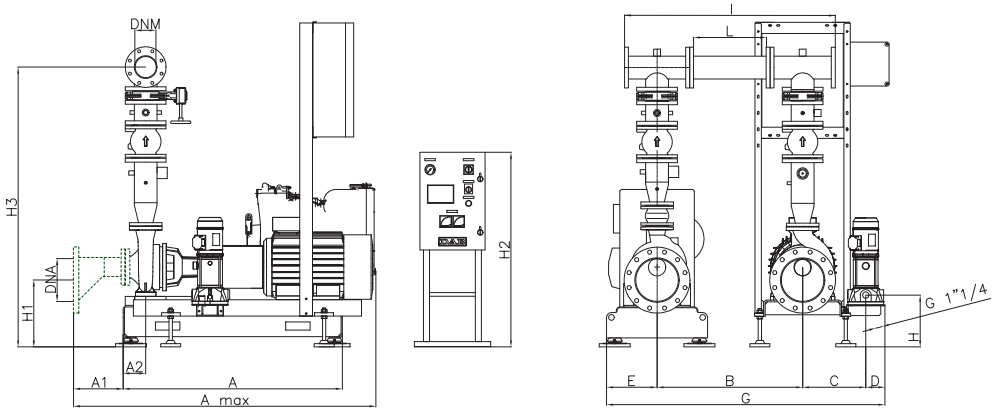
The dashed components are not included in the standard supply.

1 KDN 80-250/240 - UNI EN 12845 FIRE-FIGHTING PUMP SETS

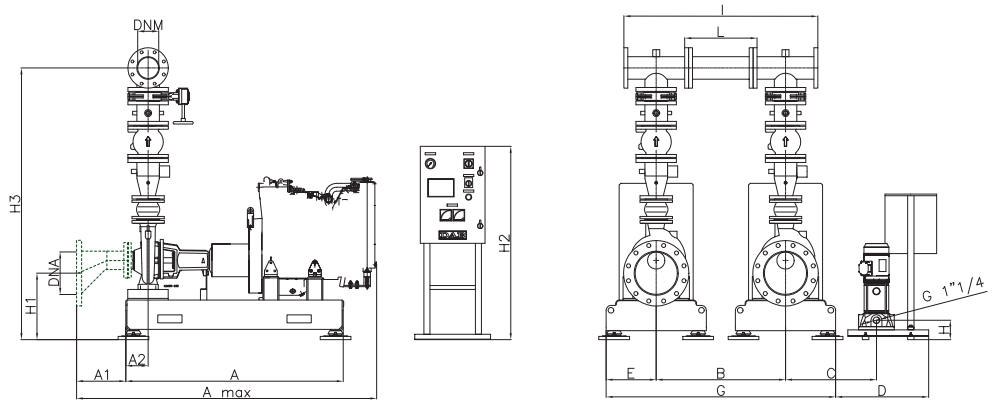
2 ELECTRIC PUMP MODULES



ELECTRIC PUMP + DIESEL ENGINE-DRIVEN PUMP MODULE



2 DIESEL ENGINE-DRIVEN PUMP MODULES

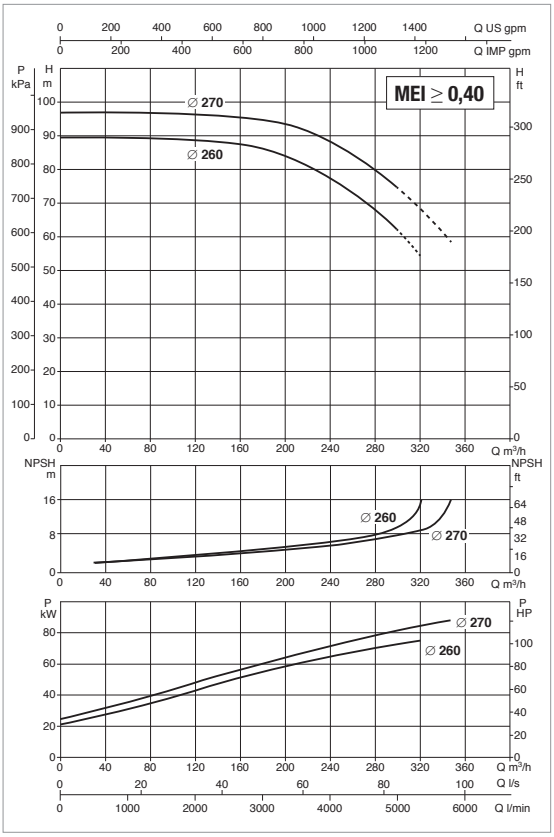


The dashed components are not included in the standard supply.

MODEL	A	A max	A1	A2	B	C	D	E	F	G	H	H1	H2	H3	I	L	DNA	DNM	WEIGHT without jockey pump kg	WEIGHT with jockey pump kg
1 KDN 80-250/240 - DIESEL ENGINE DRIVEN PUMP MODULE	1459	1939	278	139	722	613	575	-	-	-	120	453	1200	1725	400	-	200	125	1000	1030
1 KDN 80-250/240 - ELECTRIC PUMP MODULE	1600	1976	327	90	640	413	210	-	-	-	131	298	1800	1608	400	-	200	125	920	950
1 KDN 80-250/240 - 2 ELECTRIC PUMP MODULES	1600	1976	327	90	900	413	122	320	-	1755	131	298	1800	1608	1300	500	200	125	920	950
1 KDN 80-250/240 - ELECTRIC PUMP + DIESEL ENGINE DRIVEN PUMP MODULE	1459	1965	304	139	900	448	122	361	-	1831	256	453	1200	1725	1300	500	200	125	1000	950
1 KDN 80-250/240 - 2 DIESEL ENGINE DRIVEN PUMP MODULES	1459	1939	278	139	900	613	575	361	-	1622	120	453	1200	1725	1300	500	200	125	1000	1030

1 KDN 80-250/260-270 - UNI EN 12845 FIRE-FIGHTING PUMP SETS

Pumped liquid temperature range: from -15 °C to +70 °C - Maximum ambient temperature: from +4 °C to +40 °C - Maximum flow rate: = 280 m^3/h



KDN UNI EN 12845 ELECTRIC PUMP

MODEL	POWER INPUT	JOCKEY PUMP*	P2 MAIN PUMP		P2 JOCKEY PUMP		METER KIT
			kW	HP	kW	HP	
1 KDN 80-250/260 75	3x400 V ~	KVCX 65/80 T	75	100	2,2	3	KDN 80 EN 12845
1 KDN 80-250/270 90	3x400 V ~	KVCX 65/80 T	90	120	2,2	3	KDN 80 EN 12845

KDN UNI EN 12845 DIESEL ENGINE-DRIVEN PUMP

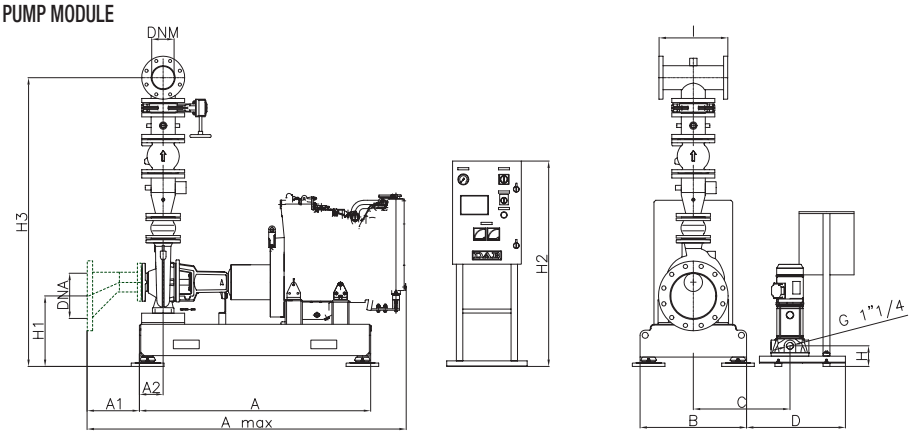
MODEL	BATTERY CHARGER POWER INPUT	JOCKEY PUMP*	** P2 DIESEL ENGINE-DRIVEN PUMP		P2 JOCKEY PUMP		METER KIT	FAN SURFACE
			kW	HP	kW	HP		
1 KDN 80-250/260 MD	1x220-240 V ~	KVCX 65/80 T	110,3	138	2,2	3	KDN 80 EN 12845	0,40 m^2
1 KDN 80-250/270 MD	1x220-240 V ~	KVCX 65/80 T	110,3	138	2,2	3	KDN 80 EN 12845	0,40 m^2

* Jockey pump on request.

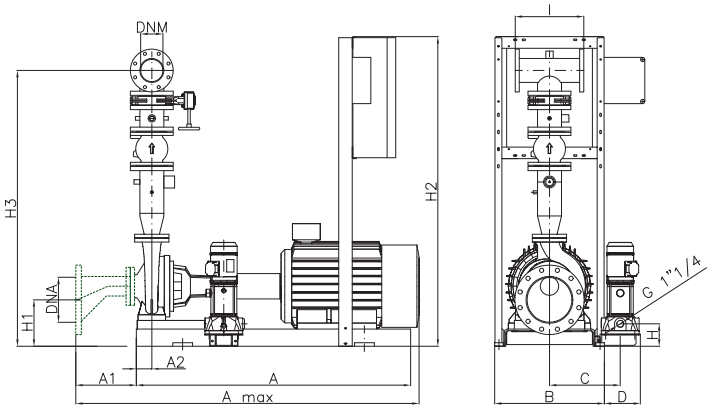
** ISO 3046 continuous power The motor is capable of delivering 10 % more of the power requested by the pump.

The performance curves are based on kinematic viscosity values = 1 mm^2/s and density equal to 1000 kg/m^3. Curve tolerance according to ISO 9906.

DIESEL ENGINE-DRIVEN PUMP MODULE



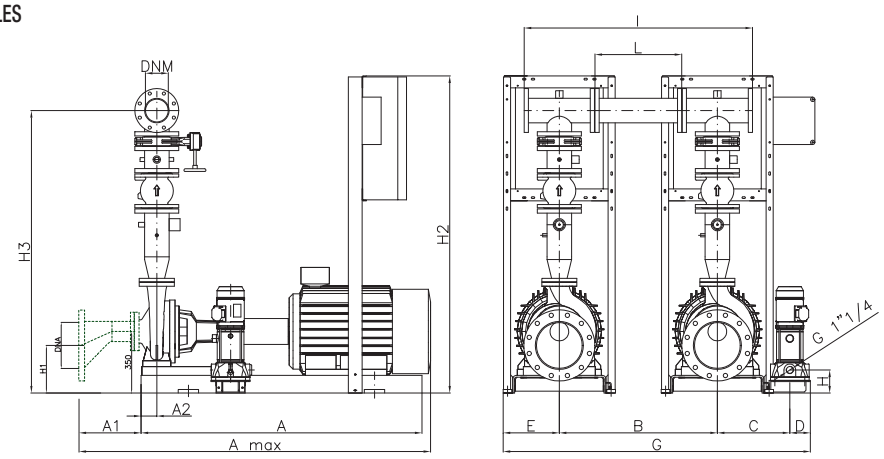
ELECTRIC PUMP MODULE



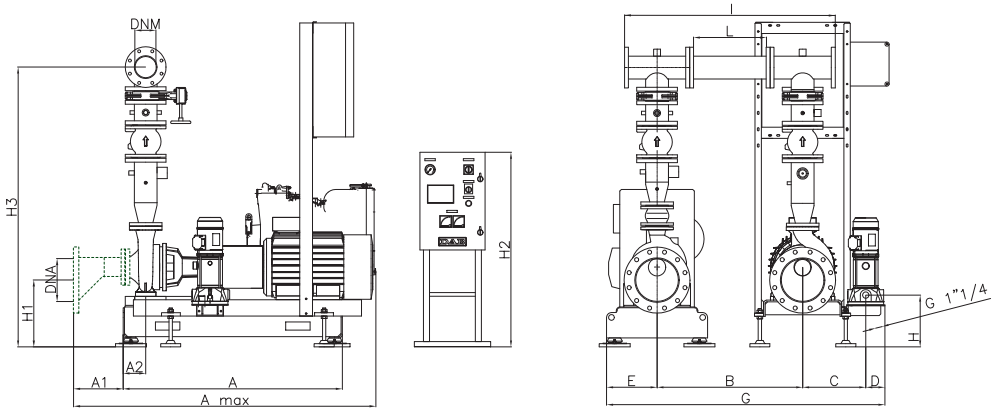
The dashed components are not included in the standard supply.

1 KDN 80-250/260-270 - UNI EN 12845 FIRE-FIGHTING PUMP SETS

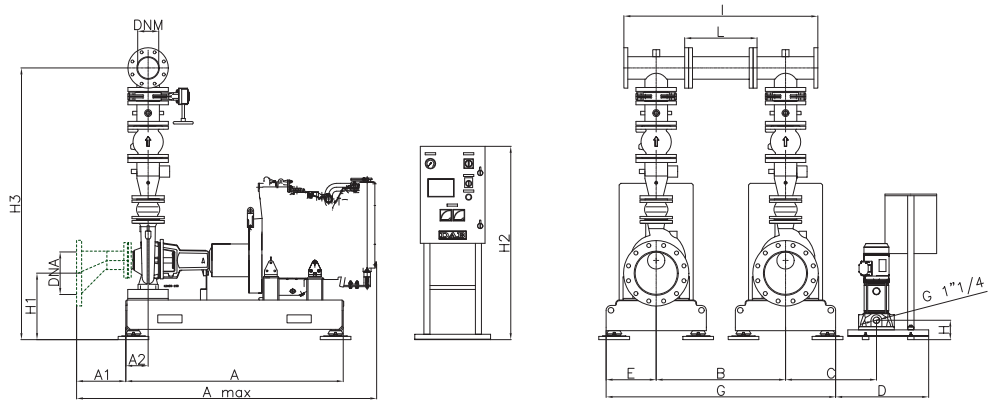
2 ELECTRIC PUMP MODULES



ELECTRIC PUMP + DIESEL ENGINE-DRIVEN PUMP MODULE



2 DIESEL ENGINE-DRIVEN PUMP MODULES

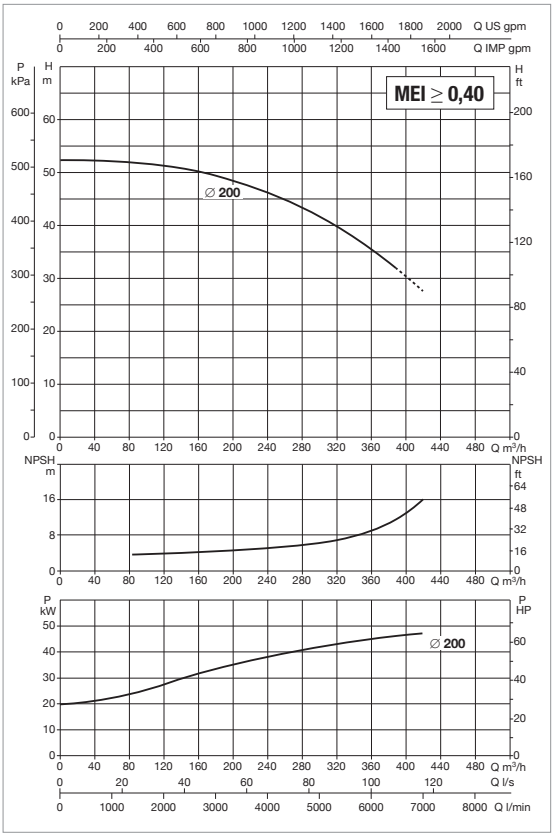


The dashed components are not included in the standard supply.

MODEL	A	A max	A1	A2	B	C	D	E	F	G	H	H1	H2	H3	I	L	DNA	DNM	WEIGHT without jockey pump kg	WEIGHT with jockey pump kg
1 KDN 80-250/260 - DIESEL ENGINE DRIVEN PUMP MODULE	1682	2202	278	139	722	613	575	-	-	-	120	453	1200	1725	400	-	200	125	1200	1230
1 KDN 80-250/260 - ELECTRIC PUMP MODULE	1800	2127	327	95	710	448	210	-	-	-	131	298	1800	1639	400	-	200	125	1170	1200
1 KDN 80-250/260 - 2 ELECTRIC PUMP MODULES	1800	2127	327	95	900	448	122	355	-	1825	131	328	1800	1639	1300	500	200	125	1170	1200
1 KDN 80-250/260 - ELECTRIC PUMP + DIESEL ENGINE DRIVEN PUMP MODULE	1682	2228	304	139	900	448	122	361	-	1831	256	453	1200	1725	1300	500	200	125	1200	1200
1 KDN 80-250/260 - 2 DIESEL ENGINE DRIVEN PUMP MODULES	1682	2202	278	139	900	613	575	361	-	1622	120	453	1200	1725	1300	500	200	125	1200	1230

1 KDN 100-200/200 - UNI EN 12845 FIRE-FIGHTING PUMP SETS

Pumped liquid temperature range: from -15 °C to +70 °C - Maximum ambient temperature: from +4 °C to +40 °C - Maximum flow rate: 400 m^3/h



KDN UNI EN 12845 ELECTRIC PUMP

MODEL	POWER INPUT	JOCKEY PUMP*	P2 MAIN PUMP		P2 JOCKEY PUMP		METER KIT
			kW	HP	kW	HP	
1 KDN 100-200/200 55	3x400 V ~	KVCX 65/80 T	55	70	2,2	3	KDN 80 EN 12845

KDN UNI EN 12845 DIESEL ENGINE-DRIVEN PUMP

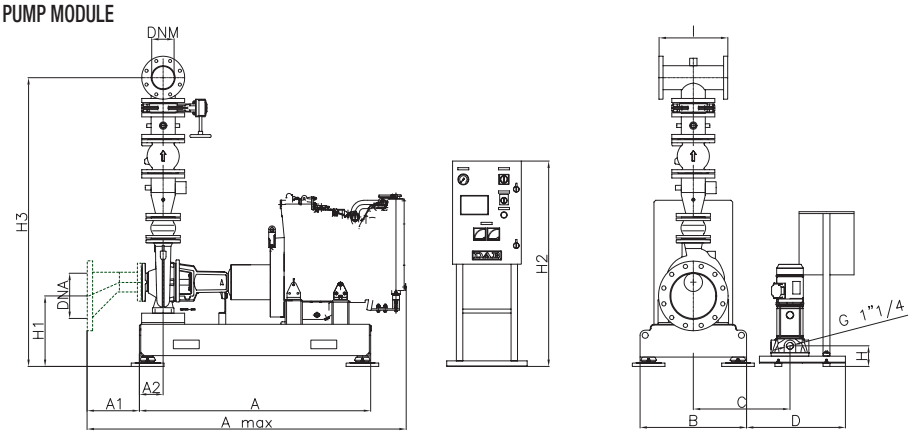
MODEL	BATTERY CHARGER POWER INPUT	JOCKEY PUMP*	** P2 DIESEL ENGINE-DRIVEN PUMP		P2 JOCKEY PUMP		METER KIT	FAN SURFACE
			kW	HP	kW	HP		
1 KDN 100-200/200 MD	1x220-240 V ~	KVCX 65/80 T	53	71	2,2	3	KDN 80 EN 12845	0,40 m^2

* Jockey pump on request.

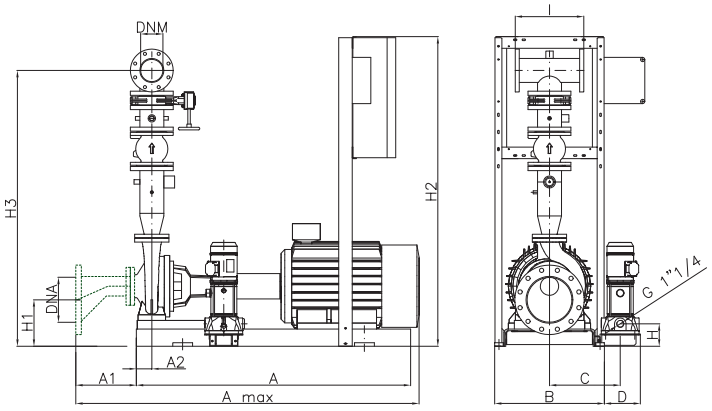
** ISO 3046 continuous power The motor is capable of delivering 10 % more of the power requested by the pump.

The performance curves are based on kinematic viscosity values = 1 mm^2/s and density equal to 1000 kg/m^3. Curve tolerance according to ISO 9906.

DIESEL ENGINE-DRIVEN PUMP MODULE



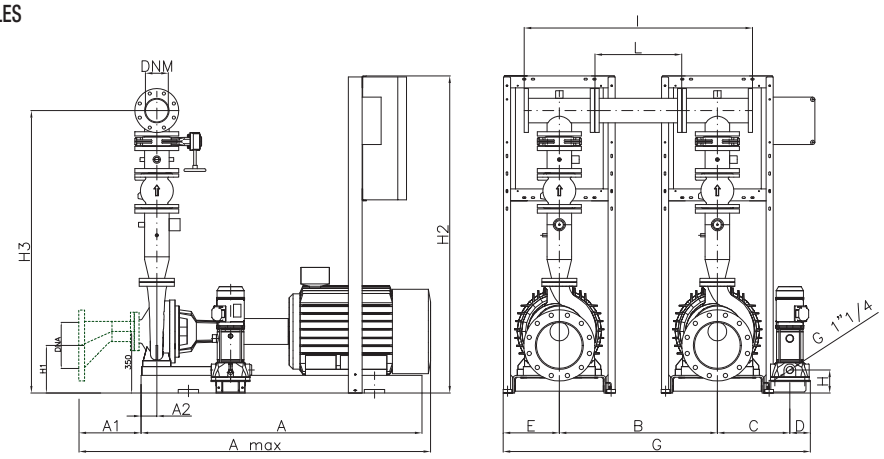
ELECTRIC PUMP MODULE



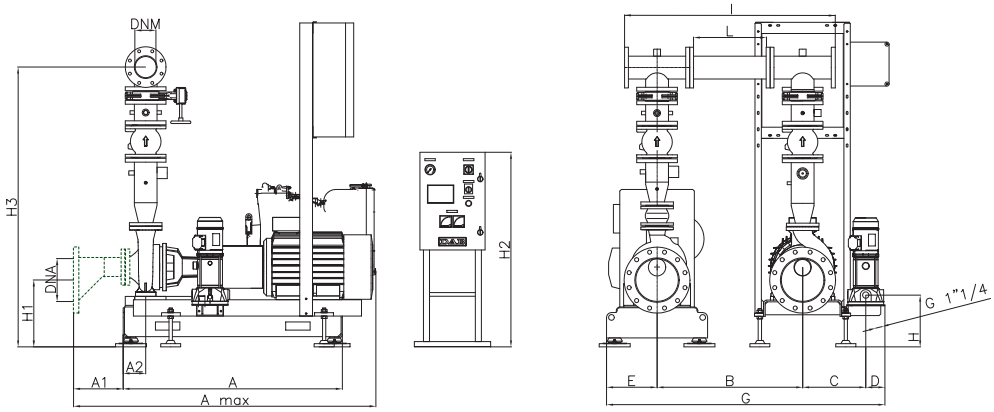
The dashed components are not included in the standard supply.

1 KDN 100-200/200 - UNI EN 12845 FIRE-FIGHTING PUMP SETS

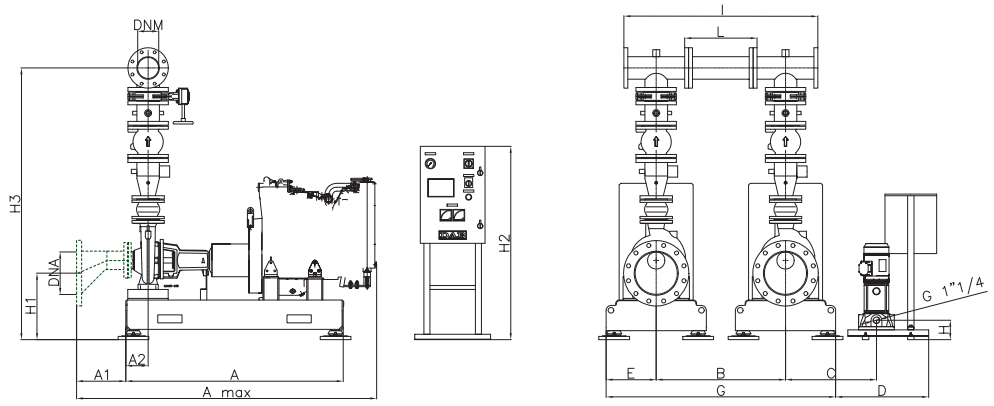
2 ELECTRIC PUMP MODULES



ELECTRIC PUMP + DIESEL ENGINE-DRIVEN PUMP MODULE



2 DIESEL ENGINE-DRIVEN PUMP MODULES

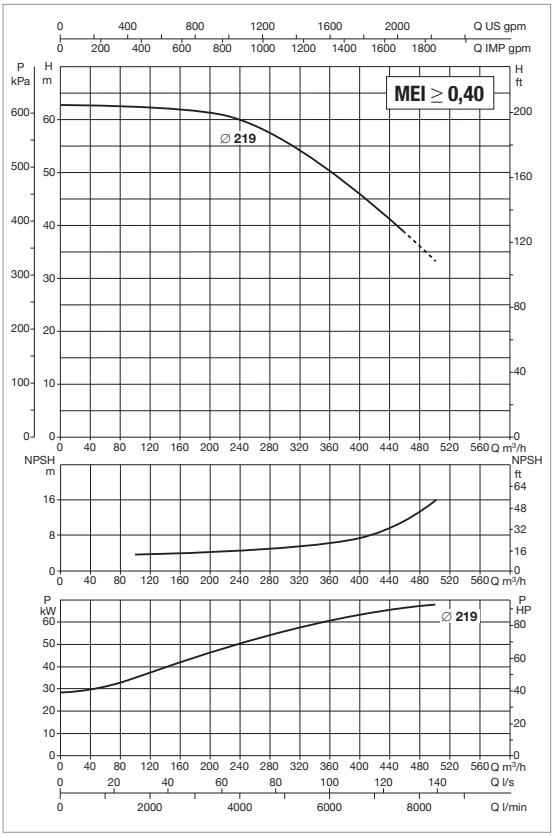


The dashed components are not included in the standard supply.

MODEL	A	A max	A1	A2	B	C	D	E	F	G	H	H1	H2	H3	I	L	DNA	DNM	WEIGHT without jockey pump kg	WEIGHT with jockey pump kg
1 KDN 100-200/200 - DIESEL ENGINE DRIVEN PUMP MODULE	1346	1887	335	139	620	562	575	-	-	-	120	423	1200	1803	600	-	250	150	1100	1130
1 KDN 100-200/200 - ELECTRIC PUMP MODULE	1400	1922	398	90	590	388	215	-	-	-	131	258	1800	1645	600	-	250	150	1120	1150
1 KDN 100-200/200 - 2 ELECTRIC PUMP MODULES	1400	1922	398	90	1100	388	122	295	-	1905	131	258	1800	1645	1700	500	250	150	1120	1150
1 KDN 100-200/200 - ELECTRIC PUMP + DIESEL ENGINE DRIVEN PUMP MODULE	1346	2057	360	139	1100	413	122	310	-	1945	271	423	1200	1803	1700	500	250	150	1100	1150
1 KDN 100-200/200 - 2 DIESEL ENGINE DRIVEN PUMP MODULES	1346	1887	335	139	1100	562	575	310	-	1720	120	423	1200	1803	1700	500	250	150	1100	1130

1 KDN 100-200/219 - UNI EN 12845 FIRE-FIGHTING PUMP SETS

Pumped liquid temperature range: from -15 °C to +70 °C - Maximum ambient temperature: from +4 °C to +40 °C - Maximum flow rate: 400 m^3/h



KDN UNI EN 12845 ELECTRIC PUMP

MODEL	POWER INPUT	JOCKEY PUMP*	P2 MAIN PUMP		P2 JOCKEY PUMP		METER KIT
			kW	HP	kW	HP	
1 KDN 100-200/219 75	3x400 V ~	KVCX 65/80 T	75	100	2,2	3	KDN 80 EN 12845

KDN UNI EN 12845 DIESEL ENGINE-DRIVEN PUMP

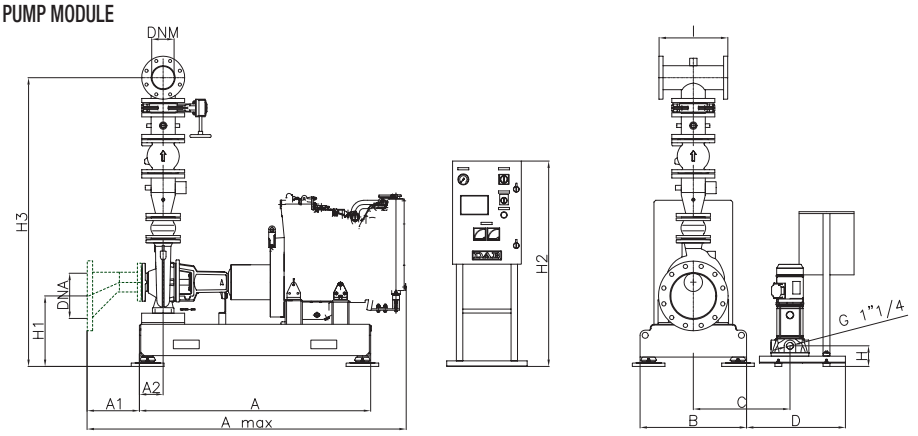
MODEL	BATTERY CHARGER POWER INPUT	JOCKEY PUMP*	** P2 DIESEL ENGINE-DRIVEN PUMP		P2 JOCKEY PUMP		METER KIT	FAN SURFACE
			kW	HP	kW	HP		
1 KDN 100-200/219 MD	1x220-240 V ~	KVCX 65/80 T	73,5	100	2,2	3	KDN 80 EN 12845	0,40 m^2

* Jockey pump on request.

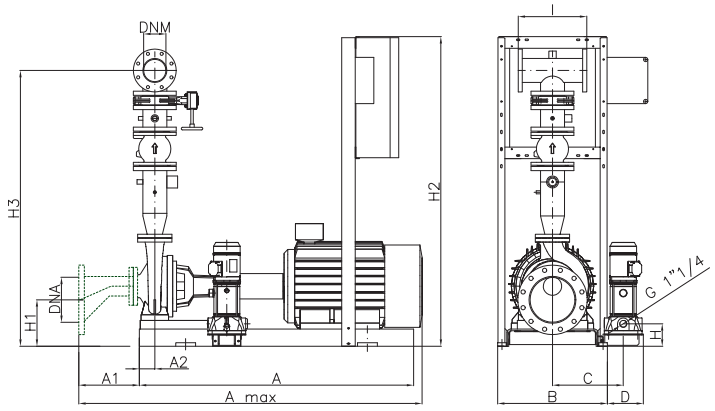
** ISO 3046 continuous power The motor is capable of delivering 10 % more of the power requested by the pump.

The performance curves are based on kinematic viscosity values = 1 mm^2/s and density equal to 1000 kg/m^3. Curve tolerance according to ISO 9906.

DIESEL ENGINE-DRIVEN PUMP MODULE



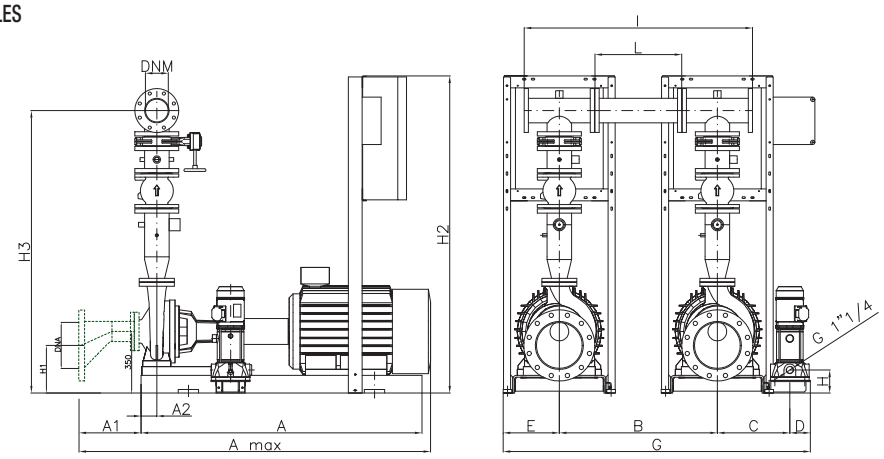
ELECTRIC PUMP MODULE



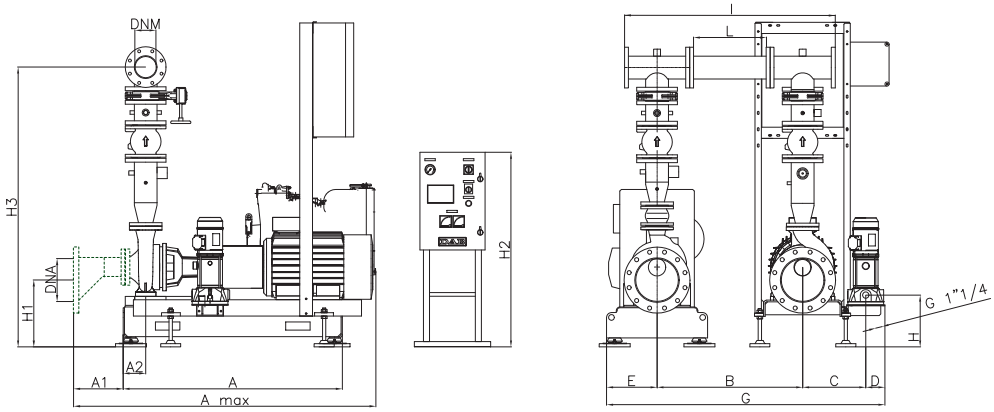
The dashed components are not included in the standard supply.

1 KDN 100-200/219 - UNI EN 12845 FIRE-FIGHTING PUMP SETS

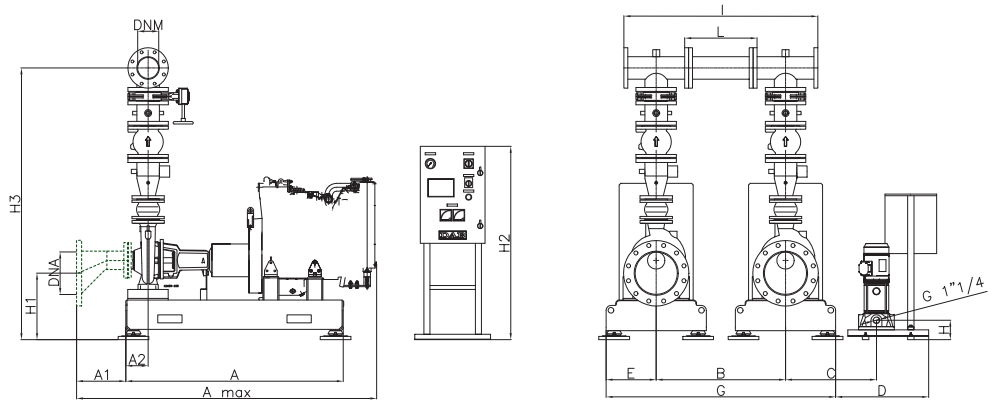
2 ELECTRIC PUMP MODULES



ELECTRIC PUMP + DIESEL ENGINE-DRIVEN PUMP MODULE



2 DIESEL ENGINE-DRIVEN PUMP MODULES

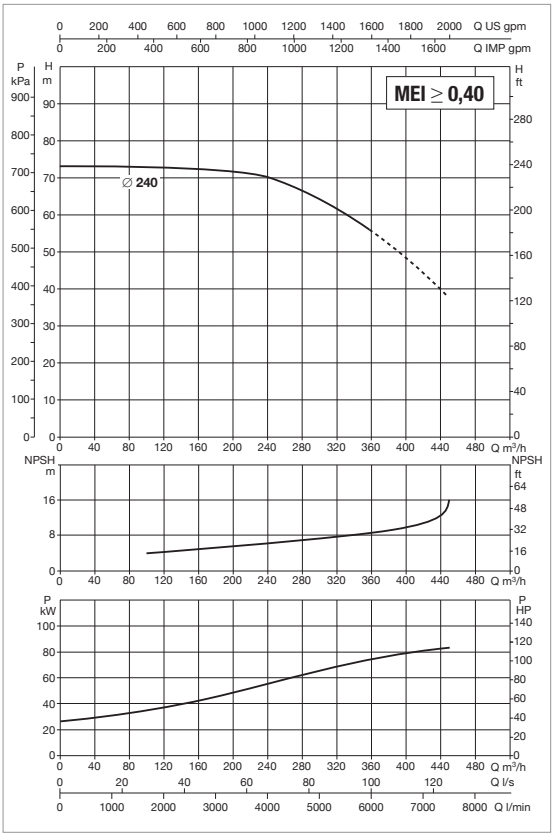


The dashed components are not included in the standard supply.

MODEL	A	A max	A1	A2	B	C	D	E	F	G	H	H1	H2	H3	I	L	DNA	DNM	WEIGHT without jockey pump kg	WEIGHT with jockey pump kg
1 KDN 100-200/219 - DIESEL ENGINE DRIVEN PUMP MODULE	1682	2258	335	139	722	613	575	-	-	-	120	438	1200	1818	600	-	250	150	1265	1295
1 KDN 100-200/219 - ELECTRIC PUMP MODULE	1800	2183	383	90	710	448	210	-	-	-	131	313	1800	1700	600	-	250	150	1280	1310
1 KDN 100-200/219 - 2 ELECTRIC PUMP MODULES	1800	2183	383	90	1100	448	122	355	-	2025	131	313	1800	1700	1700	500	250	150	1280	1310
1 KDN 100-200/219 - ELECTRIC PUMP + DIESEL ENGINE DRIVEN PUMP MODULE	1682	2283	360	139	1100	448	122	361	-	2031	256	438	1200	1818	1700	500	250	150	1265	1310
1 KDN 100-200/219 - 2 DIESEL ENGINE DRIVEN PUMP MODULES	1682	2258	335	139	1100	613	575	361	-	1822	120	438	1200	1818	1700	500	250	150	1265	1295

1 KDN 100-250/240 - UNI EN 12845 FIRE-FIGHTING PUMP SETS

Pumped liquid temperature range: from -15 °C to +70 °C - Maximum ambient temperature: from +4 °C to +40 °C - Maximum flow rate: 400 m^3/h



KDN UNI EN 12845 ELECTRIC PUMP

MODEL	POWER INPUT	JOCKEY PUMP*	P2 MAIN PUMP		P2 JOCKEY PUMP		METER KIT
			kW	HP	kW	HP	
1 KDN 100-250/240 90	3x400 V ~	KVCX 65/80 T	90	125	2,2	3	KDN 80 EN 12845

KDN UNI EN 12845 DIESEL ENGINE-DRIVEN PUMP

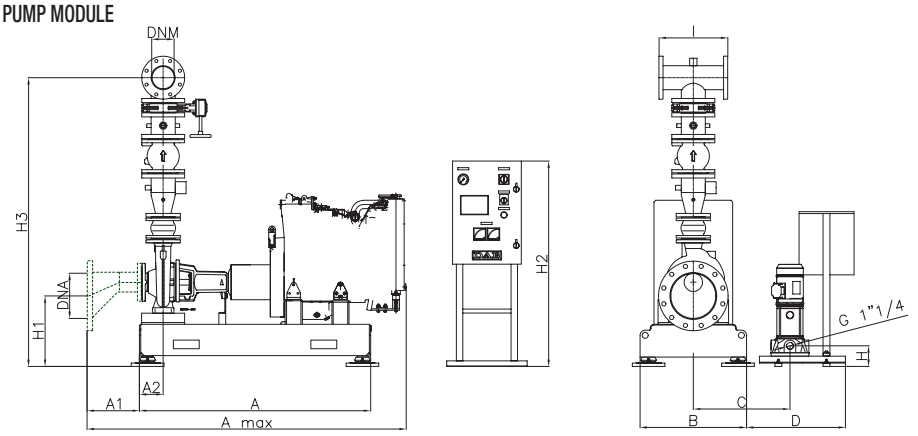
MODEL	BATTERY CHARGER POWER INPUT	JOCKEY PUMP*	** P2 DIESEL ENGINE-DRIVEN PUMP		P2 JOCKEY PUMP		METER KIT	FAN SURFACE
			kW	HP	kW	HP		
1 KDN 100-250/240 MD	1x220-240 V ~	KVCX 65/80 T	110,3	138	2,2	3	KDN 80 EN 12845	0,40 m^2

* Jockey pump on request.

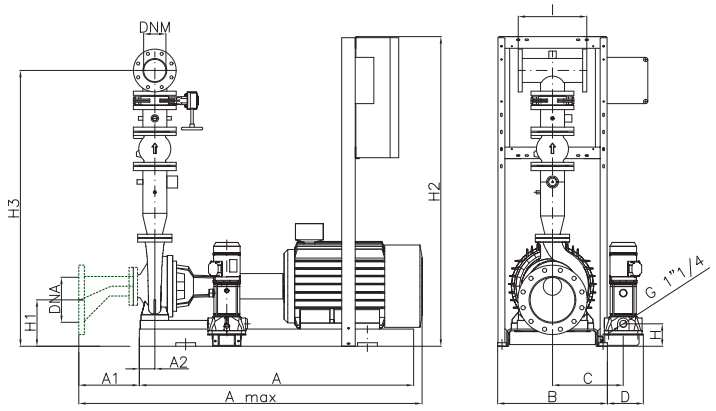
** ISO 3046 continuous power The motor is capable of delivering 10 % more of the power requested by the pump.

The performance curves are based on kinematic viscosity values = 1 mm^2/s and density equal to 1000 kg/m^3. Curve tolerance according to ISO 9906.

DIESEL ENGINE-DRIVEN PUMP MODULE



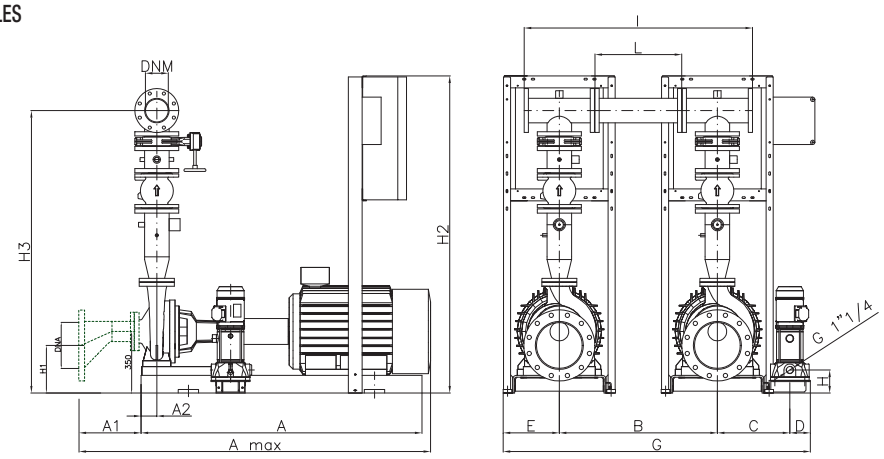
ELECTRIC PUMP MODULE



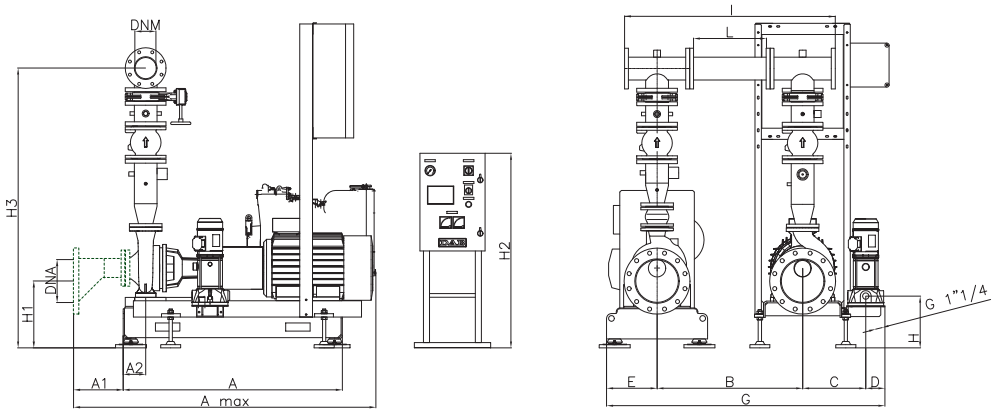
The dashed components are not included in the standard supply.

1 KDN 100-250/240 - UNI EN 12845 FIRE-FIGHTING PUMP SETS

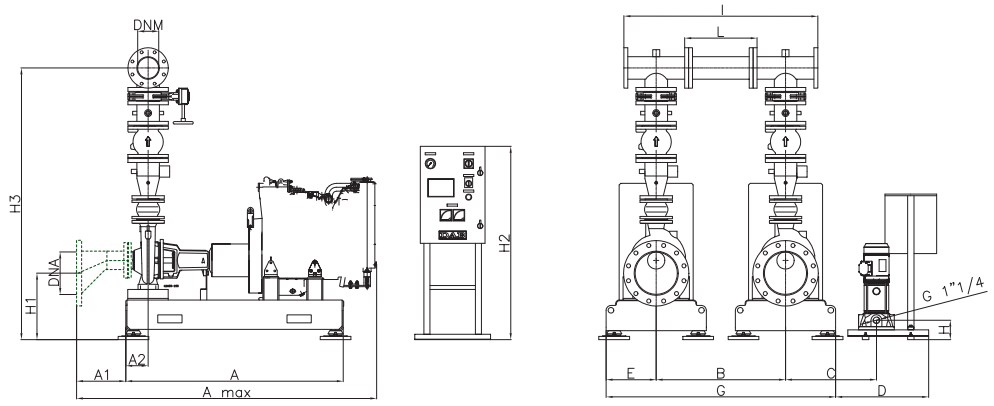
2 ELECTRIC PUMP MODULES



ELECTRIC PUMP + DIESEL ENGINE-DRIVEN PUMP MODULE



2 DIESEL ENGINE-DRIVEN PUMP MODULES

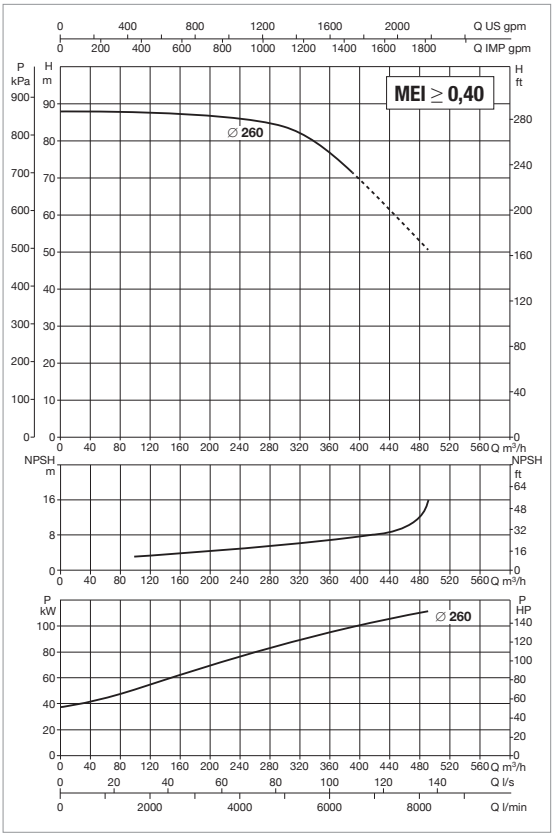


The dashed components are not included in the standard supply.

MODEL	A	A max	A1	A2	B	C	D	E	F	G	H	H1	H2	H3	I	L	DNA	DNM	WEIGHT without jockey pump kg	WEIGHT with jockey pump kg
1 KDN 100-250/240 - DIESEL ENGINE DRIVEN PUMP MODULE	1682	2273	349	139	722	613	575	-	-	-	120	438	1200	1818	600	-	250	150	1280	1310
1 KDN 100-250/240 - ELECTRIC PUMP MODULE	1800	2198	398	90	710	448	210	-	-	-	131	313	1800	1700	600	-	250	150	1320	1350
1 KDN 100-250/240 - 2 ELECTRIC PUMP MODULES	1800	2198	398	90	1100	448	122	355	-	2025	131	313	1800	1700	1700	500	250	150	1320	1350
1 KDN 100-250/240 - ELECTRIC PUMP + DIESEL ENGINE DRIVEN PUMP MODULE	1682	2298	374	139	1100	448	122	361	-	2031	256	438	1200	1818	1700	500	250	150	1280	1350
1 KDN 100-250/240 - 2 DIESEL ENGINE DRIVEN PUMP MODULES	1682	2273	349	139	1100	613	575	361	-	1822	120	438	1200	1818	1700	500	250	150	1280	1310

1 KDN 100-250/260 - UNI EN 12845 FIRE-FIGHTING PUMP SETS

Pumped liquid temperature range: from -15 °C to +70 °C - Maximum ambient temperature: from +4 °C to +40 °C - Maximum flow rate: 400 m^3/h



KDN UNI EN 12845 ELECTRIC PUMP

MODEL	POWER INPUT	JOCKEY PUMP*	P2 MAIN PUMP		P2 JOCKEY PUMP		METER KIT
			kW	HP	kW	HP	
1 KDN 100-250/260 110	3x400 V ~	KVCX 65/80 T	110	150	2,2	3	KDN 80 EN 12845

KDN UNI EN 12845 DIESEL ENGINE-DRIVEN PUMP

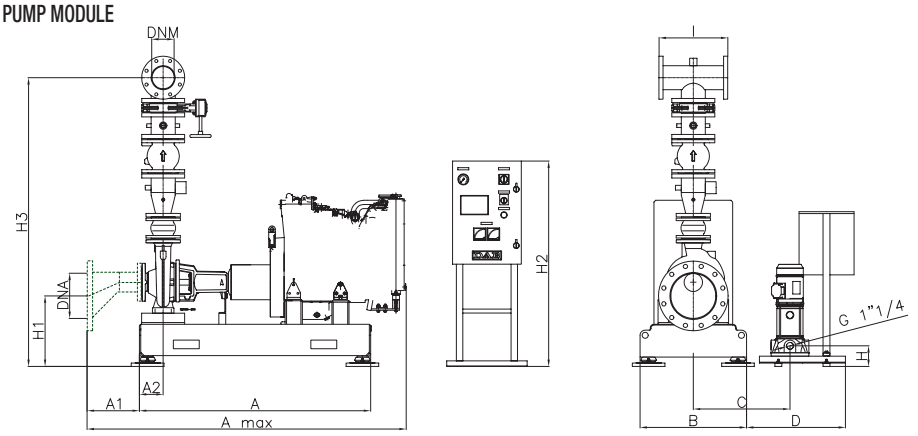
MODEL	BATTERY CHARGER POWER INPUT	JOCKEY PUMP*	** P2 DIESEL ENGINE-DRIVEN PUMP		P2 JOCKEY PUMP		METER KIT	FAN SURFACE
			kW	HP	kW	HP		
1 KDN 100-250/260 MD	1x220-240 V ~	KVCX 65/80 T	110,3	150	2,2	3	KDN 80 EN 12845	0,40 m^2

* Jockey pump on request.

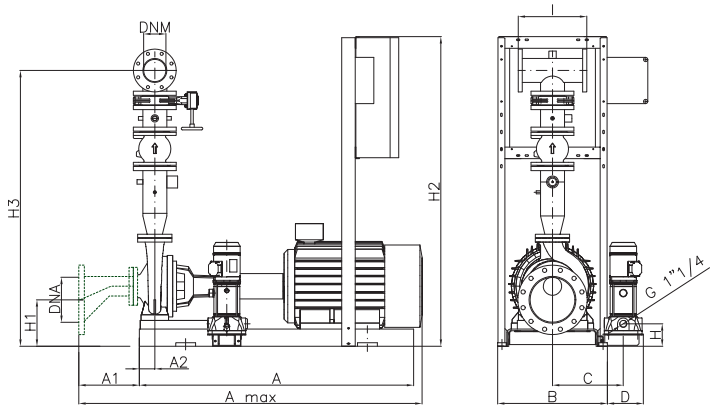
** ISO 3046 continuous power The motor is capable of delivering 10 % more of the power requested by the pump.

The performance curves are based on kinematic viscosity values = 1 mm^2/s and density equal to 1000 kg/m^3. Curve tolerance according to ISO 9906.

DIESEL ENGINE-DRIVEN PUMP MODULE



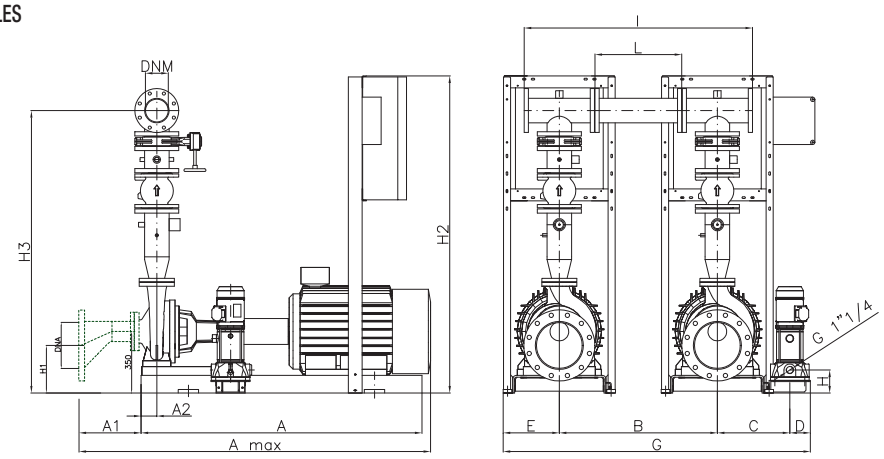
ELECTRIC PUMP MODULE



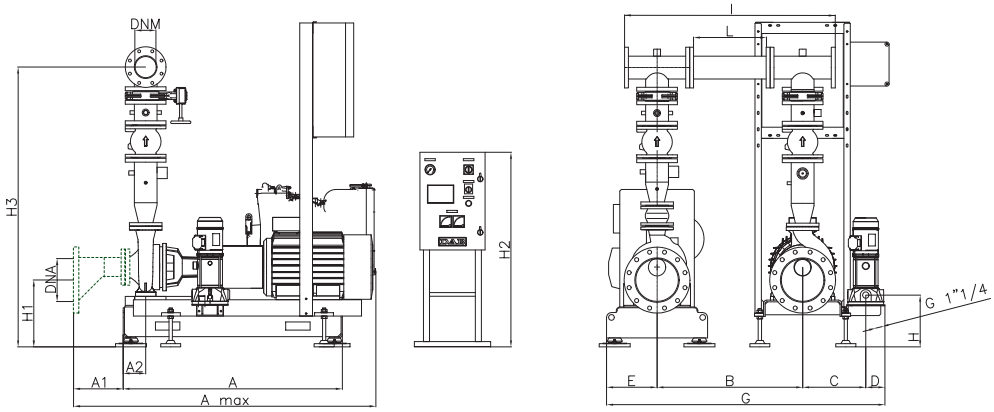
The dashed components are not included in the standard supply.

1 KDN 100-250/260 - UNI EN 12845 FIRE-FIGHTING PUMP SETS

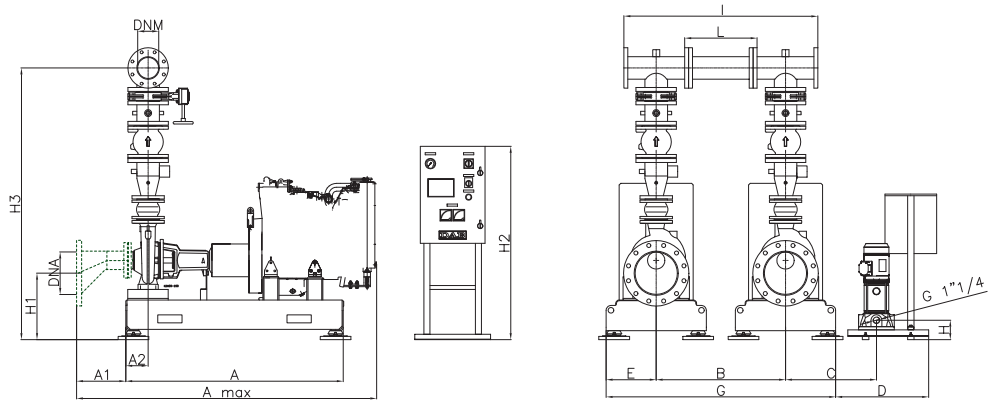
2 ELECTRIC PUMP MODULES



ELECTRIC PUMP + DIESEL ENGINE-DRIVEN PUMP MODULE



2 DIESEL ENGINE-DRIVEN PUMP MODULES



The dashed components are not included in the standard supply.

MODEL	A	A max	A1	A2	B	C	D	E	F	G	H	H1	H2	H3	I	L	DNA	DNM	WEIGHT without jockey pump kg	WEIGHT with jockey pump kg
1 KDN 100-250/260 - DIESEL ENGINE DRIVEN PUMP MODULE	1750	2218	368	120	800	652	575	-	-	-	120	450	1200	1861	600	-	250	150	1300	1330
1 KDN 100-250/260 - ELECTRIC PUMP MODULE	2000	2447	398	90	860	523	210	-	-	-	131	368	1800	1755	600	-	250	150	1430	1460
1 KDN 100-250/260 - 2 ELECTRIC PUMP MODULES	2000	2447	398	90	1100	523	122	430	-	2175	131	368	1800	1755	1700	-	250	150	1430	1460
1 KDN 100-250/260 - ELECTRIC PUMP + DIESEL ENGINE DRIVEN PUMP MODULE	1750	2472	374	120	1100	523	122	400	-	2145	213	450	1200	1861	1700	500	250	150	1300	1460
1 KDN 100-250/260 - 2 DIESEL ENGINE DRIVEN PUMP MODULES	1750	2218	368	120	1100	652	575	400	-	2404	120	450	1200	1861	1700	500	250	150	1300	1330