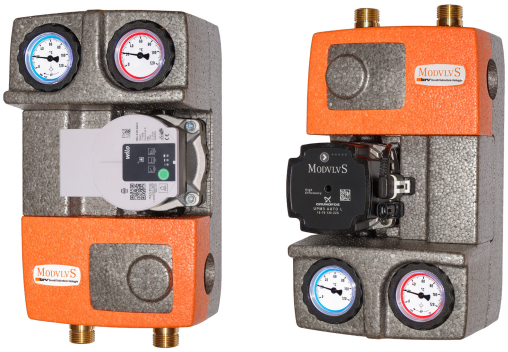
PUMP UNITS - DN20 SERIES

SAFETY: *Please read carefully the mounting and the setting working instructions before starting the unit, in order to avoid accidents and failures caused by an incorrect use of the product.*
Please keep this manual for future consultations.

TECHNICAL FEATURES COMMON TO THE DN20 SERIES

- Heating and cooling
- Nominal size: DN20
- 3/4" circulating pumps (130 mm)
- Fittings and components: copper alloy CW617N
- Insulation: EPP
- Washers: EPDM Peroxide / Fiber
- Fluids: Water (with glycol 50% max.)



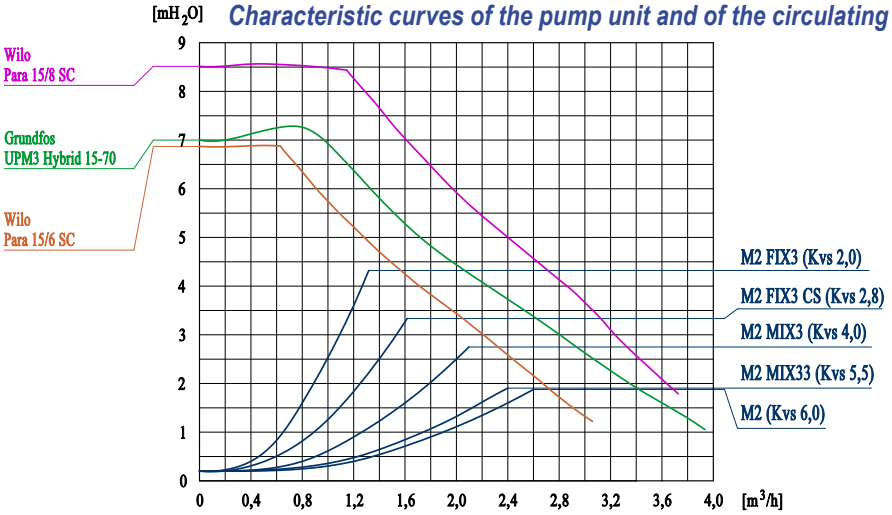
CIRCULATING PUMPS

Wilo Para 15/6 SC
Δp-v / Δp-c – 3-43 W – Imax 0,40 A
PN10 – max. 100°C
230 VAC, 50/60 Hz – EEI ≤ 0.20

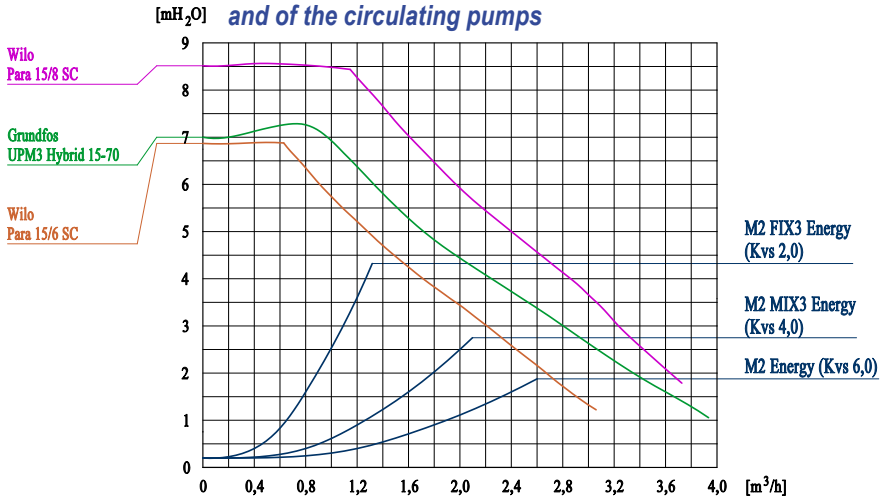
Grundfos UPM3 Hybrid 15-70
Δp-v / Δp-c / Const. speed I, II, III and IV
2-53 W – Imax 0,52 A
PN10 – max. 110°C
230 VAC, 50/60 Hz – EEI ≤ 0.20

Wilo Para 15/8 SC
Δp-v / Δp-c – 10-75 W – Imax 0,66 A
PN10 – max. 100°C
230 VAC, 50/60 Hz – EEI ≤ 0.21

Characteristic curves of the pump unit and of the circulating pumps



Characteristic curves of the Energy pump unit and of the circulating pumps



ATTENTION

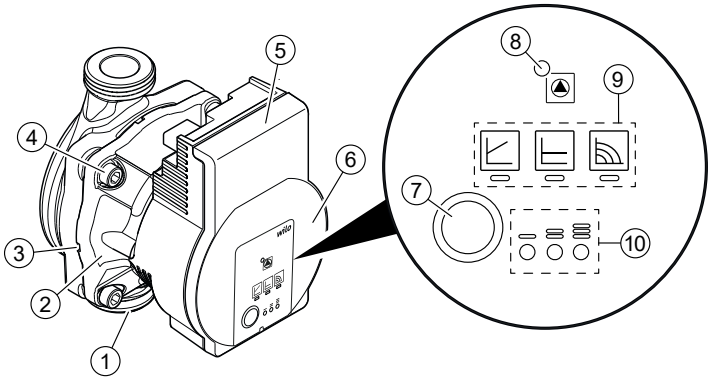
ELECTRIC WIRING

Connection to the electric system: Voltage: 230 VAC ± 10%.
Please be sure that the electric wirings are made only by an electrician in conformity with the local directions in force. The type of current and the tension must correspond to the directions written on the data plate of the circulating pump.

CONFORMITY DECLARATIONS / QUALITY DECLARATIONS

DN20 pump units series is manufactured according to the Quality System certified ISO 9001:2015, ICIM / IQNET

PUMP UNITS WITH PARA 15/6 SC AND 15/8 SC CIRCULATING PUMP



1. Pump housing with screwed connections
2. Glandless motor
3. Condensate drain openings (4x around circumference)
4. Housing screws
5. Control module
6. Rating plate
7. Operating button for pump adjustment
8. Run/fault signal LED
9. Display of selected control mode
10. Display of selected pump curve (I, II, III)

Indicator lights (LEDs)

- Signal display
- LED is lit up in green in normal operation
- LED lights up/flashes in case of fault

- Display of selected control mode Δp-v, Δp-c and constant speed
- Display of selected pump curve (I, II, III) within the control mode
- LED indicator combinations during pump venting function, manual restart and key lock

Operating button

Press
- Select control mode
- Select pump curve (I, II, III) within the control mode

Press and hold
- Activate the pump venting function (press for 3 seconds)
- Activate manual restart (press for 5 seconds)
- Lock/unlock button (press for 8 seconds)

Functions

Venting
The pump venting function is activated by pressing and holding the operating button (for 3 seconds) and automatically vents the pump.
The top and bottom LED rows flash in turn at 1 second intervals. To cancel, press and hold the operating button for 3 seconds.
The heating system is not vented.

Manual restart
A manual restart is initiated by pressing and holding the operating button (for 5 second) and unblocks the pump if required
(e.g. after long standstill period in summer).

Lock/unlock the button
The key lock is activated by pressing and holding the operating button (for 8 seconds) and locks the pump's current settings. It protects against undesired or unauthorised adjustment of the pump.

Control modes

- The LED selection of control modes and corresponding pump curves takes place in clockwise succession.
- Press the operating button briefly (approx. 1 second).
- LEDs display the set control mode and pump curve.

	LED display	Control mode	Pump curve
1		Constant speed	II
2		Constant speed	I
3		Variable differential pressure Δp-v	III
4		Variable differential pressure Δp-v	II
5		Variable differential pressure Δp-v	I
6		Constant differential pressure Δp-c	III
7		Constant differential pressure Δp-c	II
8		Constant differential pressure Δp-c	I
9		Constant speed	III