



Construction

Vertical close-coupled peripheral (regenerative) pumps with submerged turbine impeller, seal-less, reversible.
 Port dimension to EN 12157.
 Submerged depth 170 mm.

Applications

For clean liquids without abrasives, without suspended solids, non-explosive, non-aggressive for the pump materials. For the reduced dimensions, these pumps are very well suited for use with temperature, controllers chillers, and air-conditioning machines and systems.

Operating conditions

Liquid temperature: - with water up to 90 °C.
 - oil up to 150 °C.
 Max. kinematic viscosity: 20 mm²/s at 50 °C (2,9 °E).
 Ambient temperature: up to 40 °C.
 Max. depression 0,9 bar.
 Continuous duty.

Motor

2-pole induction motor, 50 Hz (n = 2900 rpm).
B-VT: three-phase 230/400 V ± 10% (220-240 / 380-415 V).
 Insulation class F.
 Protection IP 54.
 Constructed in accordance with: IEC 60034.

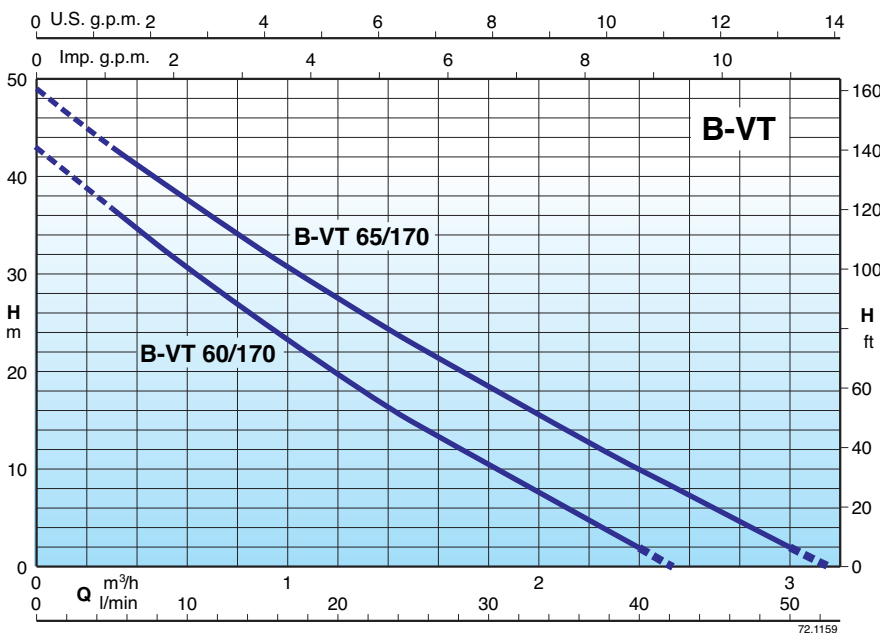
Materials

Components	Materials
Pump casing	Bronze G-Cu Sn 10 EN 1982
Casing cover	Bronze G-Cu Sn 10 EN 1982
Impeller	Brass P- Cu Zn Pb 2 UNI 5705
Shaft	Chrome steel 1.4104 EN 10088 (AISI 430)
Bearing sleeve	Corrosion-resistant Cr-Mo steel
Bearing in the casing	Polymer
Screws	Cr-Ni steel 1.4301 EN 10088 (AISI 304)

Special features on request

- Terminal box arrangement 2-3-4 in accordance with EN 12157.
- Oil temperature up to 180 °C.
- Other voltages.
- Frequency 60 Hz.
- Protection IP 55.

Characteristic Curves with water at 20 °C (ν = 1 mm²/s) n ≈ 2900 rpm



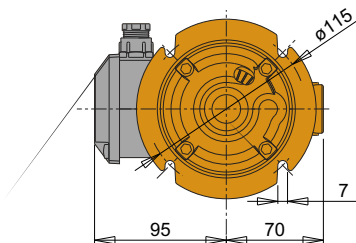
Performance $n \approx 2900$ rpm

3~	230V 400V		P ₂		Q	0	0,3	0,48	0,6	0,75	0,96	1,2	1,5	1,89	2,4	3
	A	A	kW	HP		l/min	0	5	8	10	12,5	16	20	25	31,5	40
B-VT 60/170	1,9	1,1	0,33	0,45	H	43	37	33	30,5	27,5	23,5	19,5	15	8,5	2	
B-VT 65/170	2,8	1,6	0,45	0,6	m	48,5	42,5	39	37	34,5	31	27	23	17,5	10	2

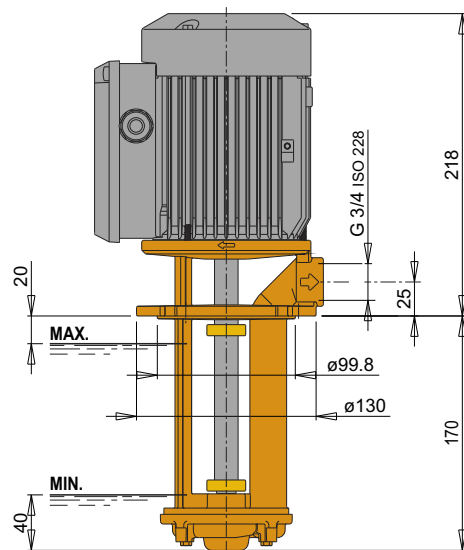
P₂ Rated motor power output.

H Pump outlet head

Dimensions and weights



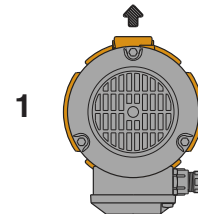
B-VT 60/170: kg 8,2
B-VT 65/170: kg 8,4



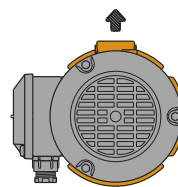
Terminal box arrangement (view from motor side)

EN 12157

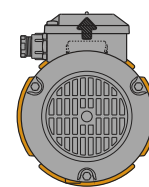
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Standard



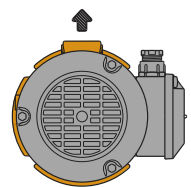
2, 3, 4
On request



2



3



4