

Similar to figure

Data sheet

Hydraulic data

Minimum efficiency index (MEI)	0.4
Min. fluid temperature T_{\min}	-20 °C
Max. fluid temperature T_{\max}	140 °C
Max. ambient temperature T_{\max}	40 °C
Maximum operating pressure P_N	16 bar
Note on dimensioning	16 bar to 120 °C, 13 bar to 140 °C

Motor data

Mains connection	3~400 V, 50 Hz
Voltage tolerance	±10 %
Motor efficiency class	IE3
Rated power P_2	4 kW
Rated current I_N	7.75 A
Rated speed n	2900 1/min
Power factor $\cos \phi$	0.83
Motor efficiency η_M 50%	85.7 %
Motor efficiency η_M 75%	87.5 %
Motor efficiency η_M 100%	88.1 %
Motor winding up to 3 kW	-
Motor winding from 4 kW	-
Insulation class	F
Protection class motor	IP55
Motor protection	no

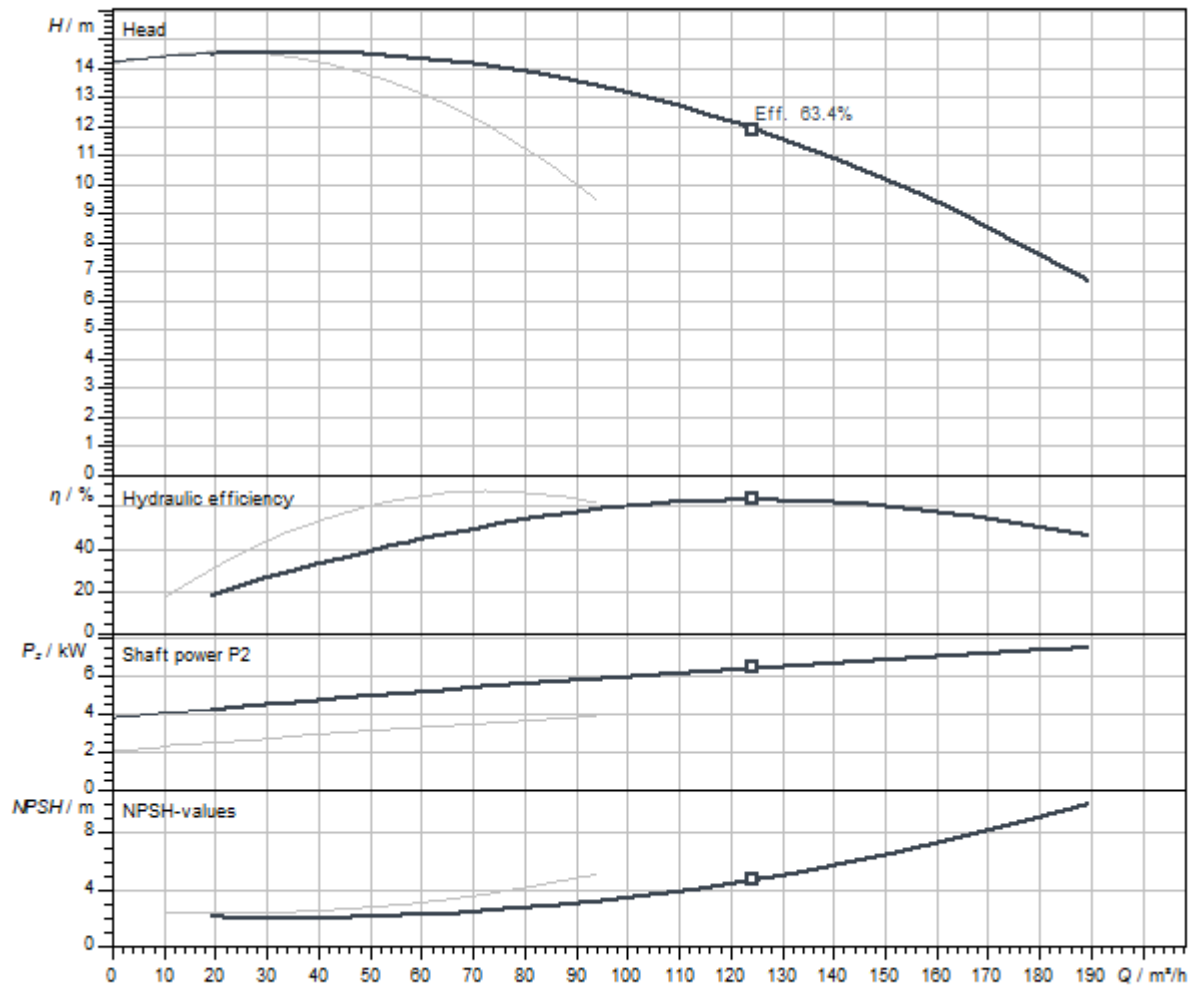
Materials

Pump housing	Cast iron
Impeller	EN-GJL-200 (GG-20) Cast iron
Shaft	Stainless steel
Mechanical seal	AQ1EGG
Lantern	Cast iron

Installation dimensions

Pipe connection on the suction side DN_s	DN 80
Pipe connection on the discharge side DN_d	DN 80
Port-to-port length L_0	400 mm

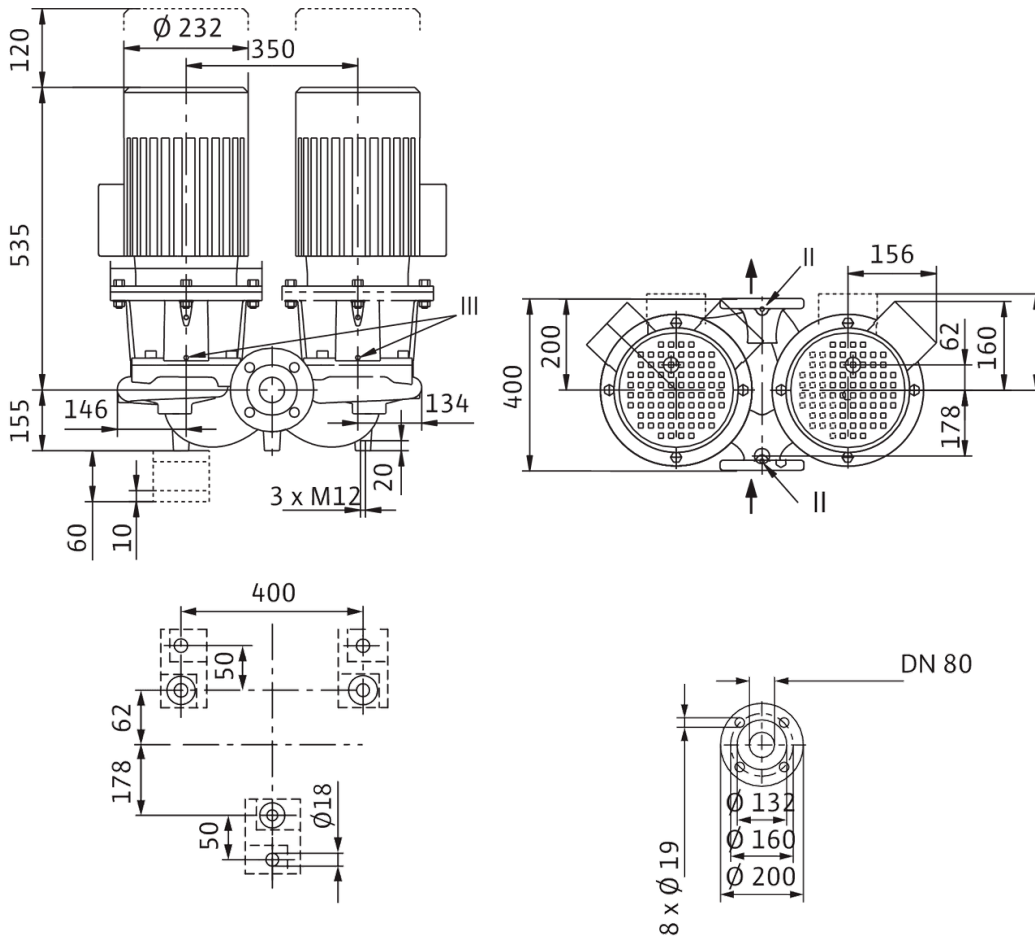
Pump curves



Fluid media	Water 100 %
Fluid temperature T	20.00 °C
speed at duty point n hydr. @ OP	2900 1/min
Impeller diameter d imp.	112 mm

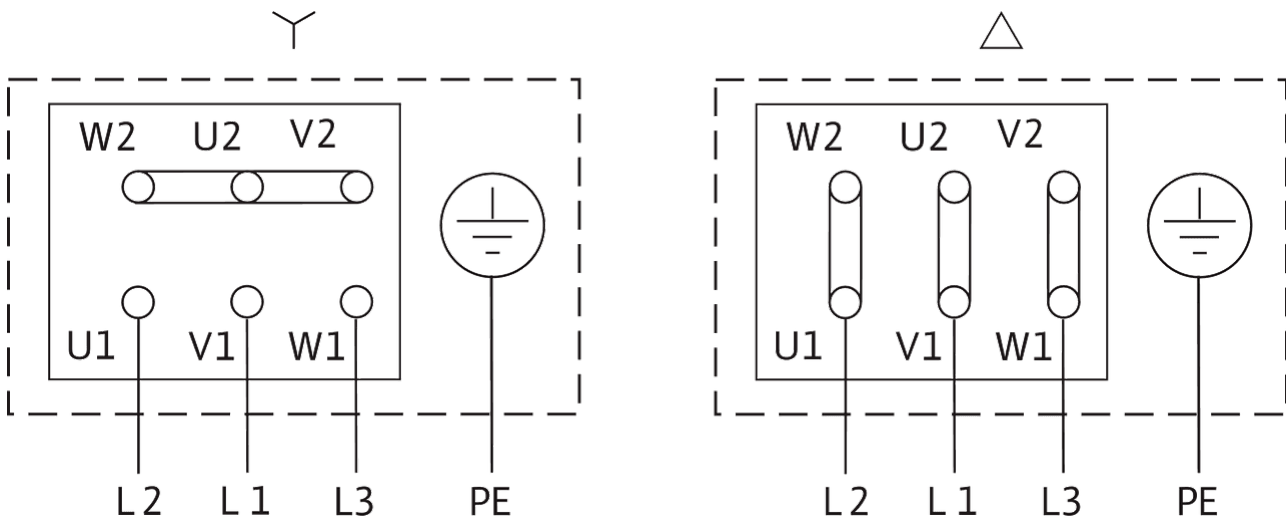
Dimensions and dimensions drawings

CronoTwin-DL 80/120-4/2



II Pressure measuring connection $R^{1/8}$; III Ventilation $R^{1/8}$

Wiring diagram



Δ: Connection diagram delta connection

Y: Connection diagram star connection

Motor protection switch required on-site. Check the direction of rotation! To change the direction of rotation, exchange any two phases.

$P_2 \leq 3 \text{ kW}$ 3~400 V Y
3~230 V Δ

$P_2 \geq 4 \text{ kW}$ 3~690 V Y
3~400 V Δ

After removing the bridges, Y-Δ start is possible.

Tender text

In-line twin-head pump with two single-stage glanded centrifugal pumps in the same housing with switchover valve, for pipe installation or installation on a base. Housing blind flange and mounting brackets available at additional charge. Low-vibration and low-noise monobloc design with lantern and rigidly connected standard flange motor (standard motor). With forced-flow circulation, bidirectional bellows mechanical seal and cavitation-reducing impeller. Flanges with pressure measuring connections R 1/8. The pump housing and lantern are cathophoretic-coated.

Motors in IE3 technology as standard. Pump with motor ≥ 5.5 kW are equipped as standard with a PTC thermistor sensor for motor protection.

The motor terminal box ≤ 7.5 kW can be made of metal or plastic. If a metal terminal box is absolutely necessary, please order the appropriate special variant. The motor terminal boxes > 7.5 kW are always made of metal.

Operating Data

Fluid temperature T	-20 °C
Ambient temperature T	-15 °C
Maximum operating pressure P_N	16 bar
Note on dimensioning	16 bar to 120 °C, 13 bar to 140 °C
Minimum efficiency index (MEI)	0.4

Motor data

Motor efficiency class	IE3
Mains connection	3~400 V, 50 Hz
Voltage tolerance	± 10 %
Rated power P_2	4000 W
Rated speed n	2900 1/min
Rated current I_N	7.75 A
Power factor $\cos \phi$	0.83
Motor efficiency η_M 50%	85.7 %
Motor efficiency η_M 75%	87.5 %
Motor efficiency η_M 100%	88.1 %
Insulation class	F
Protection class	IP55

Materials

Pump housing	Cast iron
Impeller	Cast iron
Shaft	Stainless steel
Shaft seal	AQ1EGG
Lantern	Cast iron

Installation dimensions

Pipe connection on the suction side DN_s	DN 80
Pipe connection on the discharge side DN_d	DN 80

Ordering information

Brand	Wilo
Product description	CronoTwin-DL 80/120-4/2
Net weight, approx. m	153 kg
Article number	2121050