

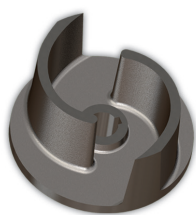
Y Series

General characteristics



- CF-8M steel construction which makes the pump suitable for use in saline environments.
- A rigid or flexible duct can be fixed to the cable gland to protect the power supply cable.
- Oil-bath motor with thermal protections.
- Shielded ball bearings with lifetime autolubrication
- Two mechanical seals in silicon carbide (2SiC) and one mechanical seal in alumina graphite (AL) for maximum reliability even in heavy-duty applications.
- Large oil sump to guarantee longer mechanical seal lifetime.
- Multichannel open impeller in CF-8M steel.
- Wide free passage allowing the expulsion of solids and preventing fouling of the impeller.

Hydraulic families

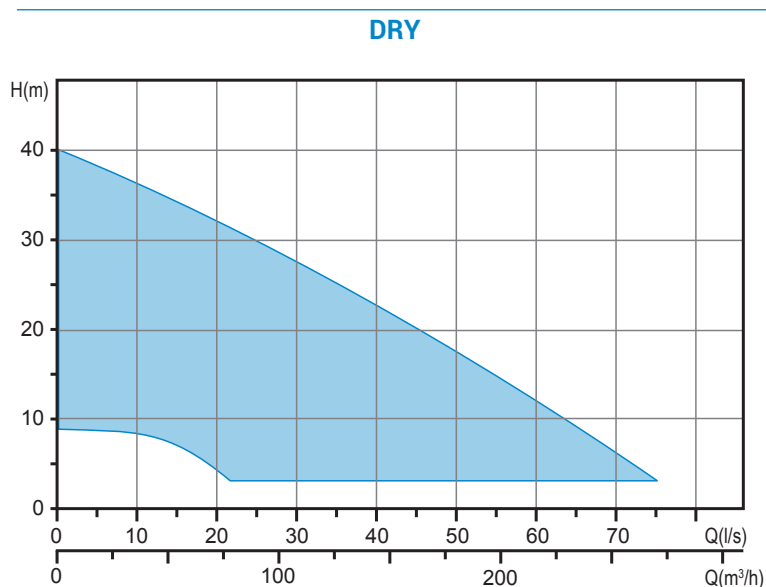


DR (Dreno)

page 32

- Multichannel open impeller in CF-8M steel.
- Designed for the treatment of strongly corrosive or chemically aggressive liquids, especially in the chemical industry, this unit is for a specific industrial application.
- Suitable for treating medium-low density fluids, containing solid and fibrous parts, sand and activated sludges.

Operating ranges



DRY

Versions available

• Electrical variants

Three-phase models

T Thermal protection

• Cooling system

N No cooling and/or seal flushing system

• Set of mechanical seals

2SICAL Two mechanical seals in silicon carbide (2SiC) and one mechanical seal in alumina graphite (AL)

Key to product code

DRY 400/2/80 A0FT5

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

① Family

② Series

③ Power (HPx100) / motor poles

④ Delivery rate
DIAMETER (DN)

⑤ Hydraulic model

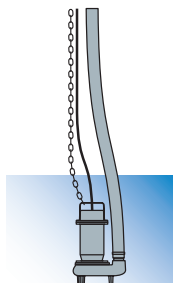
⑥ Version number

⑦ Motor size

⑧ Motor phases
M = Single-phase
T = Three-phase

⑨ Power supply voltage frequency
5 = 50Hz
6 = 60Hz

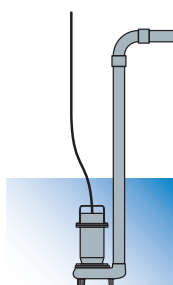
Installations



Free installation

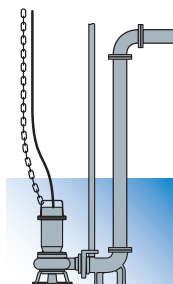
The electric pump, standing on its feet or base, is connected to the delivery flexible pipe using a joint fixed to the discharge.

This installation allows to move easily the electrical pump



Fixed installation

The electric pump, standing on its feet or base, is connected to the delivery pipe, which is screwed to the discharge if threaded, or fixed to a bend if the port is flanged. The pump-hose connection may be threaded or flanged, depending on the pump fitting.



Installation with base coupling foot

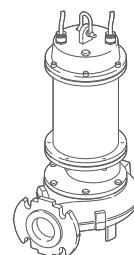
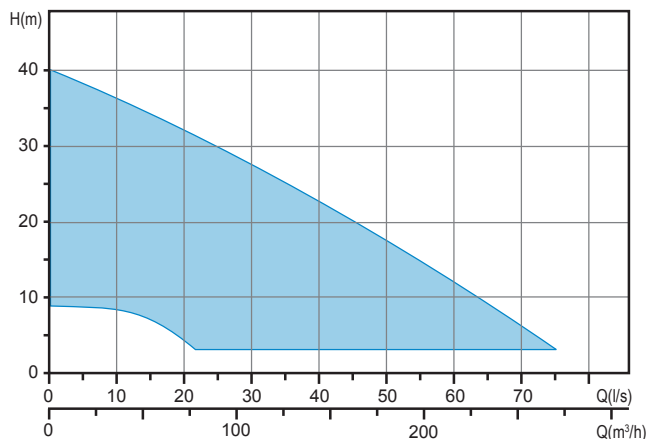
For submerged installation, available for electric pumps with flanged or threaded horizontal discharge. The coupling device is fixed to the bottom of the tank and the pump is lowered in with the aid of two guide pipes fitted earlier, until the connection to the foot is completed. The delivery pipe is fixed to the coupling device discharge.

This device makes routine checks, any maintenance work or replacement of the pump extremely easy, with no need to empty the tank.

DRY

Pumps with multi-channel open impeller

Operating ranges



Range characteristics

Motor power	1.5 ÷ 15 kW
Poles	2/4
Insulation class	F
Degree of protection	IP68
Discharge	DN65 ÷ DN100 horizontal
Free passage	max 80 mm
Max flow rate	72.8 l/s (4368 l/min)
Max head	40.2 m

Motor

Oil bath motor with thermal protections.

Cable

H07RN-F 4G1 - 5 m cable length. Optional 10 m cable length.

Mechanical seals

Two silicon carbide mechanical seals (2SiC) and one carbon-aluminium oxide mechanical seal (AL)

Applications

Designed for the treatment of strongly corrosive or chemically aggressive liquids, especially in the chemical industry, this unit is for a specific industrial application.

Versions

Electrical variants	T (three-phase models)
Cooling system	N
Mechanical seals	2SiC/L

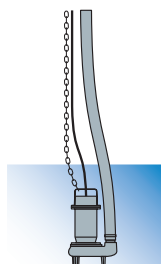
Operating specifications

Max operating temperature	40 °C
PH of treated fluid	3 ÷ 14
Viscosity of treated fluid	1 mm²/s
Maximum immersion depth	20 m
Density of treated fluid	1 Kg/dm³
Acoustic pressure max	<70dB
Max starts per hour	30

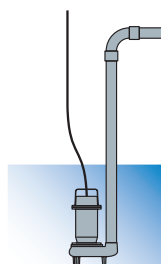
Construction materials

Case	Cast stainless steel - CF-8M (AISI 316)
Hydraulic parts	Cast stainless steel - CF-8M (AISI 316)
Impeller	Stainless steel
Nuts and bolts	Stainless steel - Class A4-70
Standard gasket	Rubber - VITON
Shaft	Stainless steel - AISI 316
Paint type	-

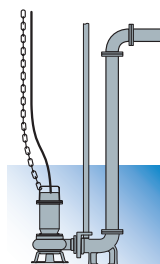
Installations



FREE



FIXED

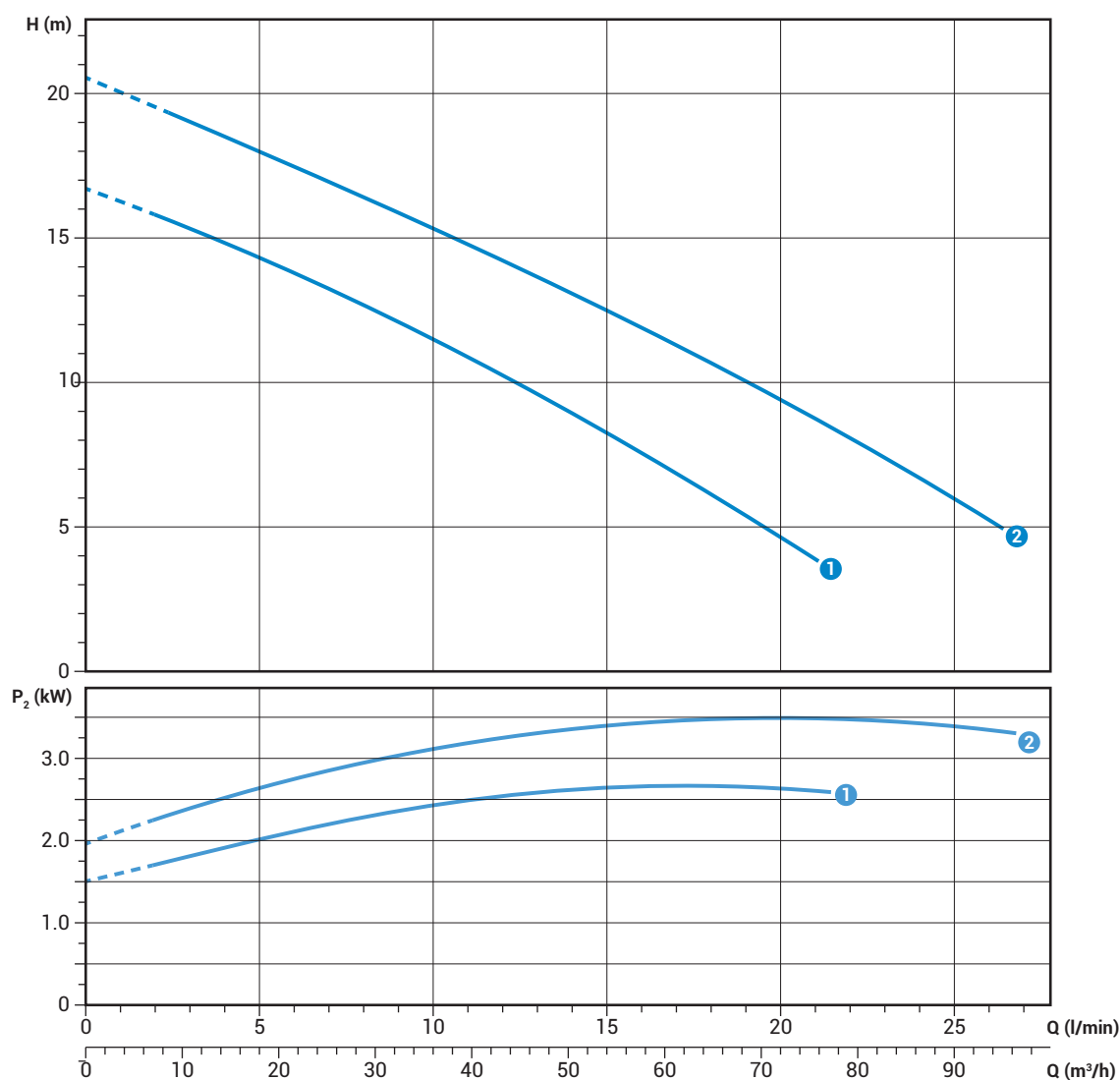


with BASE COUPLING FOOT

DRY 2/65

Performances

	l/s	0	6	12	18	24
	l/min	0	360	720	1080	1440
	m³/h	0	21.6	43.2	64.8	86.4
① DRY 300/2/65 A0ET5		16.7	13.7	10.2	6.1	
② DRY 400/2/65 A0FT5		20.5	17.4	14.2	10.7	6.7



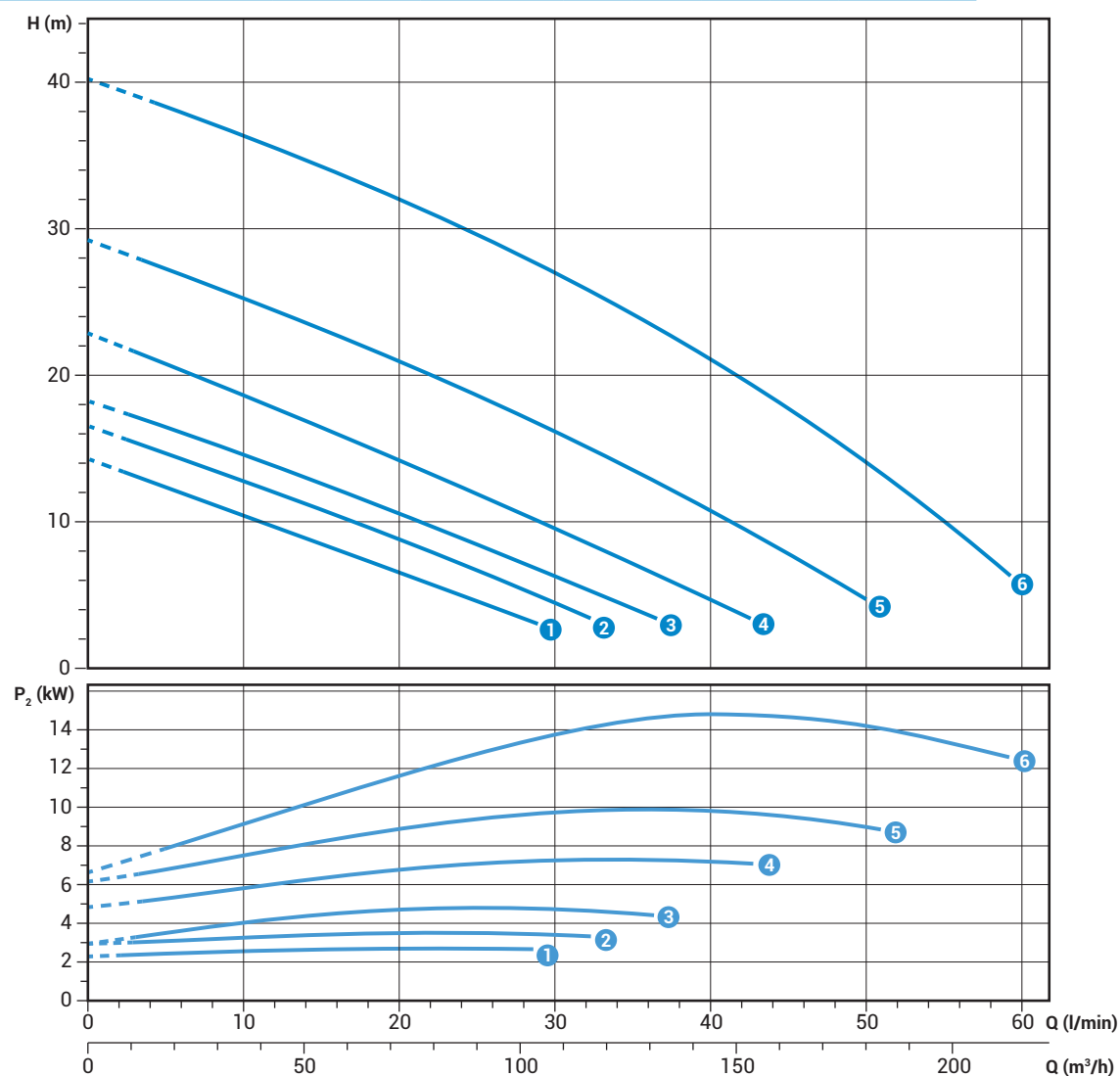
Technical data

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Cable	Ø	Free passage
① DRY 300/2/65 A0ET5	400	3	3.7	2.7	6.0	2900	Dir	4G1.5+2G1	DN65	43 mm
② DRY 400/2/65 A0FT5	400	3	4.7	3.6	8.0	2900	Dir	4G1.5+2G1	DN65	43 mm

DRY 2/80

Performances

	l/s	0	6	12	18	24	30	36	42	48	54
	l/min	0	360	720	1080	1440	1800	2160	2520	2880	3240
	m³/h	0	21.6	43.2	64.8	86.4	108	129.6	151.2	172.8	194.4
1 DRY 300/2/80 A0ET5		14.3	11.9	9.6	7.3	5.0					
2 DRY 400/2/80 A0FT5		16.6	14.4	12.1	9.6	7.1	4.4				
3 DRY 550/2/80 A0GT5		18.2	16.1	13.8	11.4	8.8	6.2	3.6			
4 DRY 750/2/80 A0HT5		22.8	20.3	17.7	15.0	12.3	9.5	6.6	3.7		
5 DRY 1000/2/80 A0HT5		29.2	26.9	24.4	21.8	19.1	16.2	13.1	9.7	6.0	
6 DRY 1500/2/80 A0HT5		40.1	38.0	35.6	33.0	30.2	27.0	23.6	19.7	15.5	10.8



Technical data

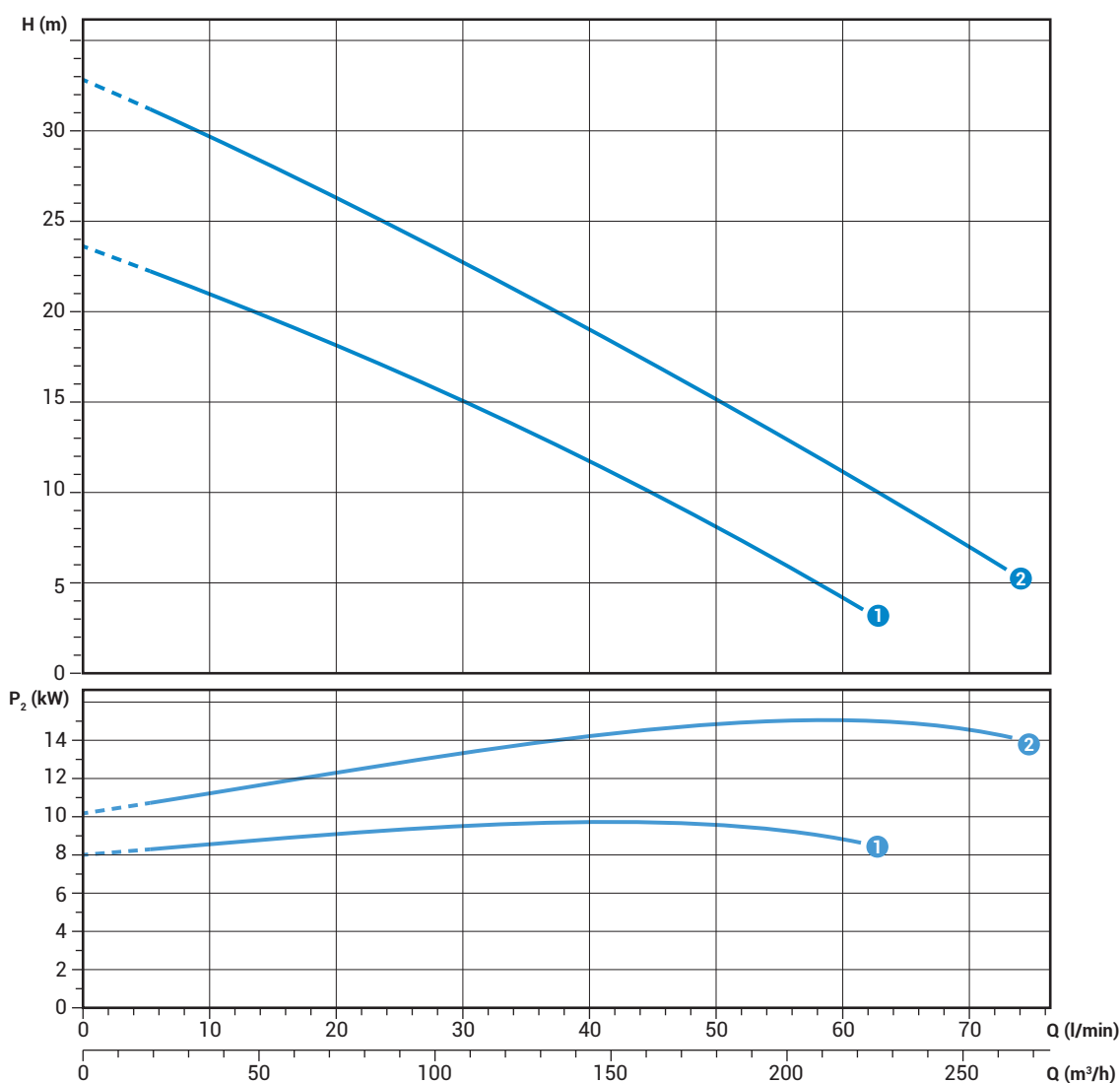
	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Cable	Ø	Free passage
1 DRY 300/2/80 A0ET5	400	3	3.7	2.7	6.0	2900	Dir	4G1.5+2G1	DN80	56 mm
2 DRY 400/2/80 A0FT5	400	3	4.7	3.6	8.0	2900	Dir	4G1.5+2G1	DN80	56 mm
3 DRY 550/2/80 A0GT5	400	3	5.9	4.9	10.1	2900	Dir	4G1.5+2G1	DN80	56 mm
4 DRY 750/2/80 A0HT5	400	3	8.8	7.2	14.5	2900	YΔ	2x 4G2.5+2G1	DN80	63 mm
5 DRY 1000/2/80 A0HT5	400	3	12.4	10	19.8	2900	YΔ	2x 4G2.5+2G1	DN80	65 mm
6 DRY 1500/2/80 A0HT5	400	3	17.7	15	28.2	2900	YΔ	2x 4G2.5+2G1	DN80	60 mm

Characteristic curves according to UNI EN ISO 9906

DRY 2/100

Performances

	l/s	0	6	12	18	24	30	36	42	48	54	60	66	72
	l/min	0	360	720	1080	1440	1800	2160	2520	2880	3240	3600	3960	4320
	m ³ /h	0	21.6	43.2	64.8	86.4	108	129.6	151.2	172.8	194.4	216	237.6	259.2
① DRY 1000/2/100 A0HT5		23.6	22.0	20.4	18.7	17.0	15.1	13.2	11.1	8.9	6.6	4.2		
② DRY 1500/2/100 A0HT5		32.9	31.0	29.0	27.0	24.9	22.7	20.5	18.2	15.9	13.5	11.1	8.6	6.1



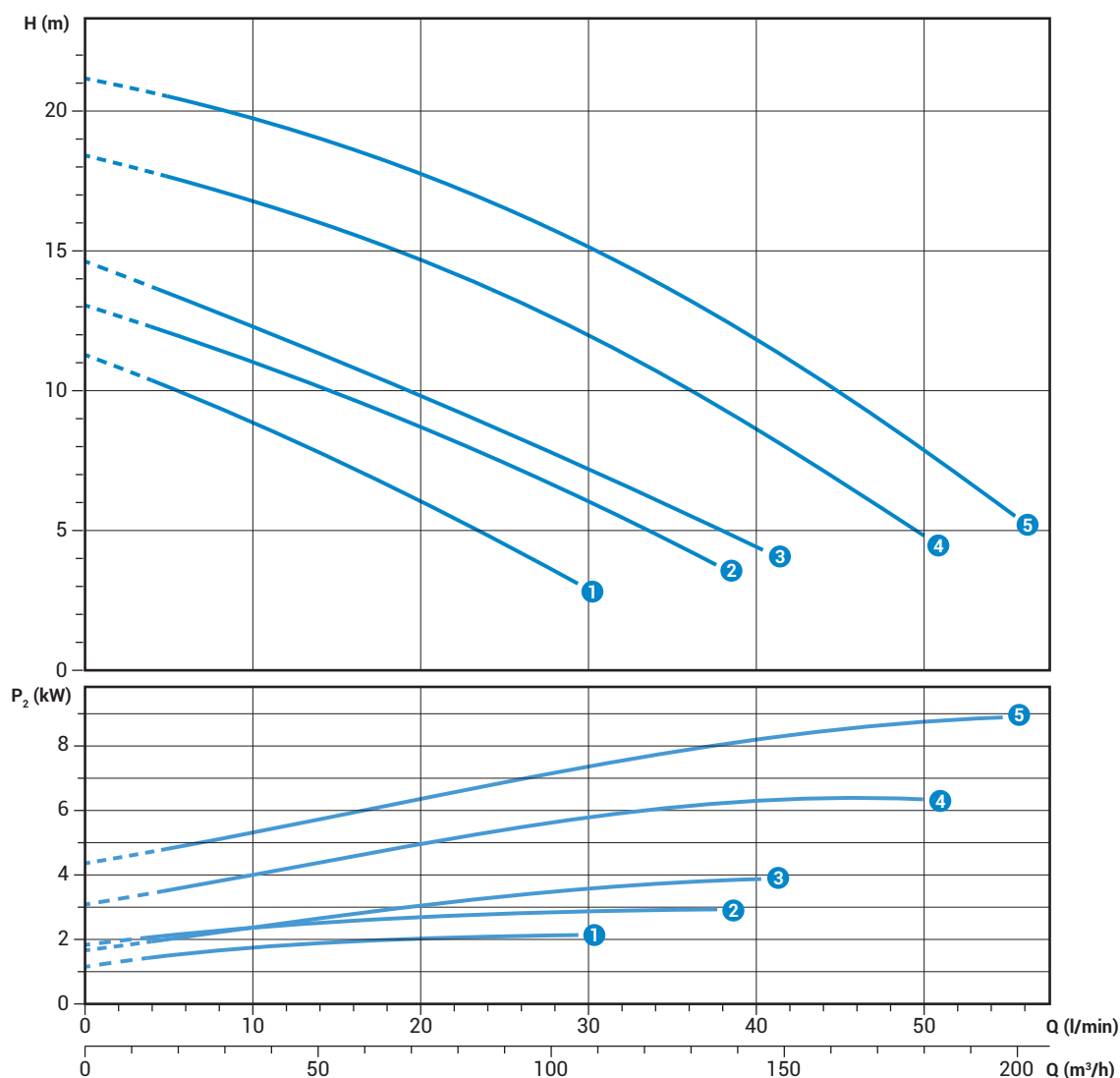
Technical data

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Cable	Ø	Free passage
① DRY 1000/2/100 A0HT5	400	3	12.4	10	19.8	2900	YΔ	2x 4G2.5+2G1	DN100	80 mm
② DRY 1500/2/100 A0HT5	400	3	17.7	15	28.2	2900	YΔ	2x 4G2.5+2G1	DN100	80 mm

DRY 4/80

Performances

	l/s	0	6	12	18	24	30	36	42	48	54
	l/min	0	360	720	1080	1440	1800	2160	2520	2880	3240
	m ³ /h	0	21.6	43.2	64.8	86.4	108	129.6	151.2	172.8	194.4
① DRY 300/4/80 A0FT5		11.3	9.9	8.3	6.6	4.8					
② DRY 400/4/80 A0FT5		13.1	11.9	10.6	9.2	7.7	6.1	4.3			
③ DRY 550/4/80 A0GT5		14.6	13.2	11.8	10.4	8.8	7.2	5.5			
④ DRY 750/4/80 A0HT5		18.4	17.5	16.5	15.2	13.7	12.0	10.1	7.9	5.6	
⑤ DRY 1000/4/80 A0HT5		21.2	20.4	19.4	18.2	16.8	15.1	13.2	11.1	8.8	6.2



Characteristic curves according to UNI EN ISO 9906

Technical data

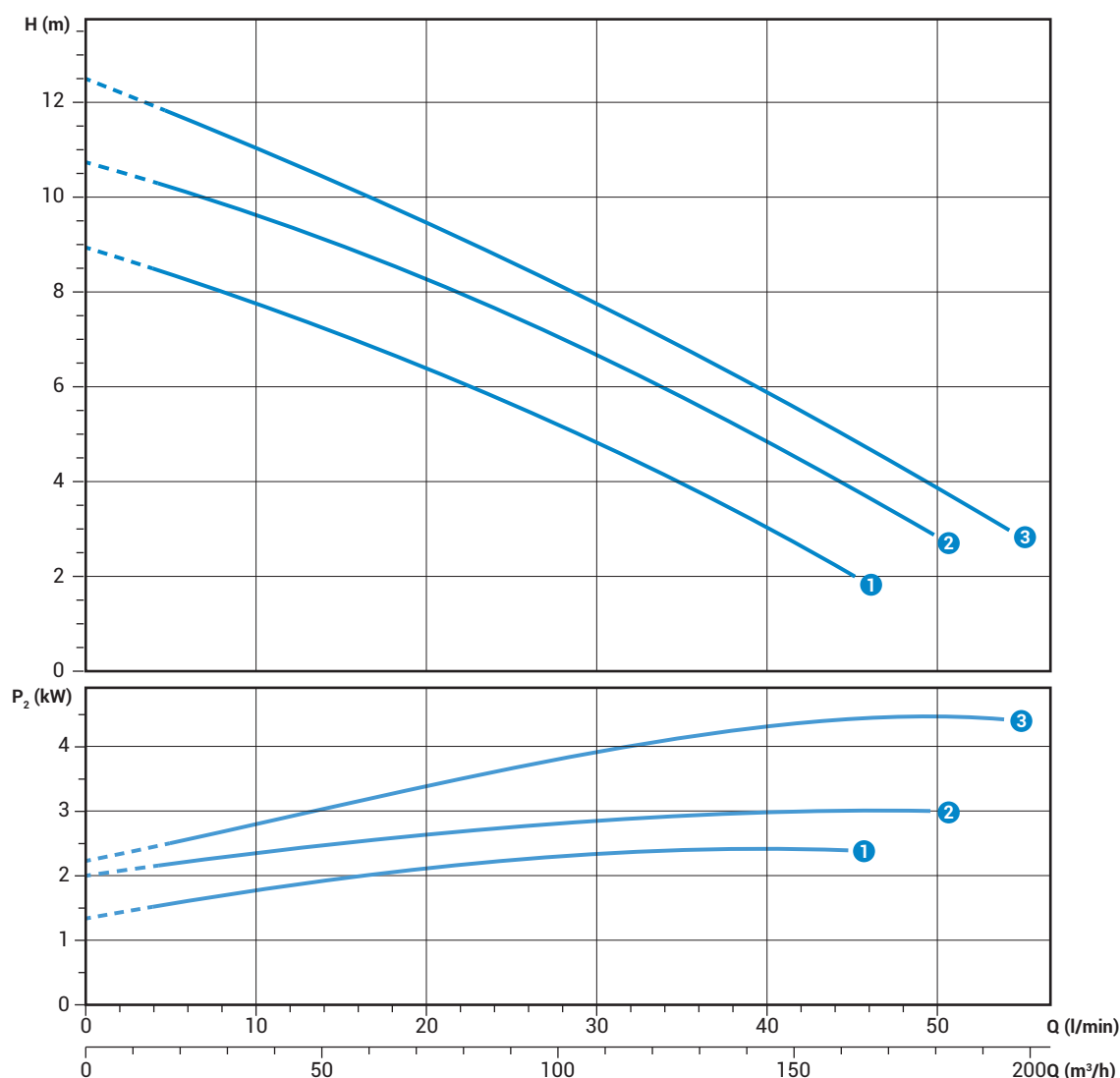
	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Cable	Ø	Free passage
① DRY 300/4/80 A0FT5	400	3	3.1	2.4	6.1	1450	Dir	4G1.5+2G1	DN100	67 mm
② DRY 400/4/80 A0FT5	400	3	4.1	3	7.9	1450	Dir	4G1.5+2G1	DN100	67 mm
③ DRY 550/4/80 A0GT5	400	3	5.9	4.6	10.1	1450	Dir	2x 4G2.5+2G1	DN100	67 mm
④ DRY 750/4/80 A0HT5	400	3	8.6	6.5	14.9	1450	YΔ	2x 4G2.5+2G1	DN100	70 mm
⑤ DRY 1000/4/80 A0HT5	400	3	11.5	8.9	20	1450	YΔ	2x 4G2.5+2G1	DN100	70 mm

DRY 4/100

Performances

	l/s	0	6	12	18	24	30	36	42	48	54
	l/min	0	360	720	1080	1440	1800	2160	2520	2880	3240
	m³/h	0	21.6	43.2	64.8	86.4	108	129.6	151.2	172.8	194.4
① DRY 300/4/100 A0FT5		8.9	8.3	7.5	6.7	5.8	4.8	3.8	2.6		
② DRY 400/4/100 A0FT5		10.8	10.1	9.4	8.6	7.7	6.7	5.6	4.5	3.3	
③ DRY 550/4/100 A0GT5		12.5	11.6	10.7	9.8	8.8	7.7	6.6	5.5	4.3	3.1

Characteristic curves according to UNI EN ISO 9906

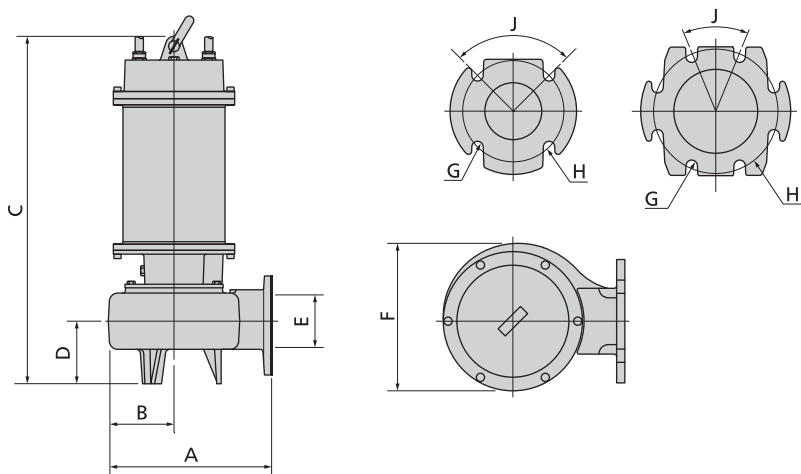


Technical data

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Start	Cable	Ø	Free passage
① DRY 300/4/100 A0FT5	400	3	3.1	2.4	6.1	1450	Dir	4G1.5+2G1	DN100	76 mm
② DRY 400/4/100 A0FT5	400	3	4.1	3	7.9	1450	Dir	4G1.5+2G1	DN100	76 mm
③ DRY 550/4/100 A0GT5	400	3	5.9	4.6	10.1	1450	Dir	4G2.5+2G1	DN100	76 mm

DRY

Overall dimensions and weights



	A	B	C	D	E	F	G	H	J	kg
DRY 300/2/65 A0ET5	270	110	570	105	65	220	18	145	90°	50
DRY 400/2/65 A0FT5	270	110	645	105	65	220	18	145	90°	54
DRY 300/2/80 A0ET5	295	120	580	115	80	220	18	160	90°	51
DRY 400/2/80 A0FT5	295	120	660	115	80	235	18	160	90°	65
DRY 550/2/80 A0GT5	295	120	665	115	80	235	18	160	90°	62
DRY 750/2/80 A0HT5	390	150	755	150	80	295	18	160	90°	104
DRY 1000/2/80 A0HT5	390	150	755	150	80	295	18	160	90°	110
DRY 1500/2/80 A0HT5	390	150	755	150	80	295	18	160	90°	130
DRY 1000/2/100 A0HT5	415	160	770	155	100	310	18	180	90°	115
DRY 1500/2/100 A0HT5	415	160	770	155	100	310	18	180	90°	144
DRY 300/4/80 A0FT5	390	150	710	150	80	290	18	160	90°	73
DRY 400/4/80 A0FT5	390	150	710	150	80	290	18	160	90°	81
DRY 550/4/80 A0GT5	390	150	720	150	80	290	18	160	90°	87
DRY 750/4/80 A0HT5	440	170	775	155	80	340	18	160	90°	120
DRY 1000/4/80 A0HT5	440	170	775	155	80	340	18	160	90°	128
DRY 300/4/100 A0FT5	415	160	725	155	100	310	18	180	45°	75
DRY 400/4/100 A0FT5	415	160	720	155	100	310	18	180	45°	85
DRY 550/4/100 A0GT5	415	160	725	155	100	310	18	180	45°	91

Dimensions in mm

Packaging dimension



	X	Y	Z
DRY 300/2/65 A0ET/50	445	725	415
DRY 400/2/65 A0FT/50	445	725	415
DRY 300/2/80 A0ET/50	445	725	415
DRY 400/2/80 A0FT/50	445	725	415
DRY 550/2/80 A0GT/50	445	725	415
DRY 750/2/80 A0HT/50	515	915	555
DRY 1000/2/80 A0HT/50	515	915	555
DRY 1500/2/80 A0HT/50	515	915	555
DRY 1000/2/100 A0HT/50	515	915	555
DRY 1500/2/100 A0HT/50	515	915	555

	X	Y	Z
DRY 300/4/80 A0FT/50	445	725	415
DRY 400/4/80 A0FT/50	445	725	415
DRY 550/4/80 A0GT/50	445	725	415
DRY 750/4/80 A0HT/50	515	915	555
DRY 1000/4/80 A0HT/50	515	915	555
DRY 300/4/100 A0FT/50	445	725	415
DRY 400/4/100 A0FT/50	445	725	415
DRY 550/4/100 A0GT/50	445	725	415

Dimensions in mm