

4.4 Specification

4.4.1 Specification text fitted units

Two-, three- or four-pump booster unit consisting of:

- Two, three or four DPV vertical multi-stage centrifugal pumps of which all parts that come into contact with the medium have been made of AISI304.
- Two, three or four special DP non-return valve bends AISI304.
- Four, six or eight ball valves AISI304.
- AISI304 pump counter flanges
- AISI304 Manifold with one side capped in connection with a short, dead pipe.
- Run-dry protection kit consisting of a pressure transmitter with drain option.
- Discharge pressure control kit consisting of a pressure transmitter with drain option and an 8 litres membrane tank.



ATTENTION

Note: various small parts may have been made of brass.

The installation has a switch box that is mounted onto the powder coated base frame of the installation in the factory and that has also been equipped with a Megacontrol control system. The installation is delivered on 4 vibration-absorbers.

Additionally, the switch box includes:

- For each pump a frequency drive (MCMF)
- Main switch with door opening protection.
- For each pump a thermal motor protection switch.
- Fail-safe voltage-free failure outputs urgent and not-urgent (NO and NC).

The Megacontrol microprocessor control module has the following basic functions:

- Pressure control
- Optimised pump staging.
- Continuously optimised minimum-run time of the pumps.
- Adjustable correction factor for pressure loss in the system.
- 24-hours test-run function.
- Adjustable delay of the under pressure/run-dry protection.
- Option for controlling the level in a storage tank.
- Display options: actual system values, pump status, operating hours, comprehensive failure interface.

Discharge bend

The discharge bend has a plastic non-return valve with the certifications:

Table 107: Certifications

Approvals	
KIWA	NL
SITAC	S
DVGW	D
NF	F
WRAS	UK
ETA	DK
ABP	D
NSF	USA

All our booster units comply with the NEN1006 (nl) standard and have been constructed as described in the most actual water worksheets (NL).

4.4.2 Specification text flanged units

Two-, three- or four-pump booster unit consisting of:

- Two, three or four DPVF vertical multi-stage centrifugal pumps of which all parts that come into contact with the medium have been made of AISI304.
- Two, three or four cast-iron non-return valves.
- Four, six or eight butterfly valves AISI316 (inside) / cast-iron (outside)
- AISI304 Manifold with one side capped in connection with a short, dead pipe.
- Run-dry protection kit consisting of a pressure transmitter with drain option.
- Discharge pressure control kit consisting of a pressure transmitter with drain option and an 8 litres membrane tank.



ATTENTION

Note: various small parts may have been made of brass.

The installation has a switch box that is mounted onto the powder coated base frame of the installation in the factory and that has also been equipped with a Megacontrol control system. The installation is delivered on 4 machine feet that are adjustable in height.

Additionally, the switch box includes:

- For each pump a frequency drive (MCMF) or a one flying inverter for more pumps (MCF)
- Main switch with door opening protection.
- For each pump a thermal motor protection switch.
- Fail-safe voltage-free failure outputs urgent and not-urgent (NO and NC).

The Megacontrol microprocessor control module has the following basic functions:

- Pressure control
- Optimised pump staging.
- Continuously optimised minimum-run time of the pumps.
- Adjustable correction factor for pressure loss in the system.
- 24-hours test-run function.
- Adjustable delay of the under pressure/run-dry protection.
- Option for controlling the level in a storage tank.
- Display options: actual system values, pump status, operating hours, comprehensive failure interface.

Machine feet

The installation has by default machine feet for setting the height of the installation.

All our booster units comply with the NEN1006 (nl) standard and have been constructed as described in the most actual water worksheets (NL).

5 Specification without cabinet

5.1 Dimensions HU2 without cabinet

5.1.1 HU2 DPVF32/45/65/85 without Cabinet

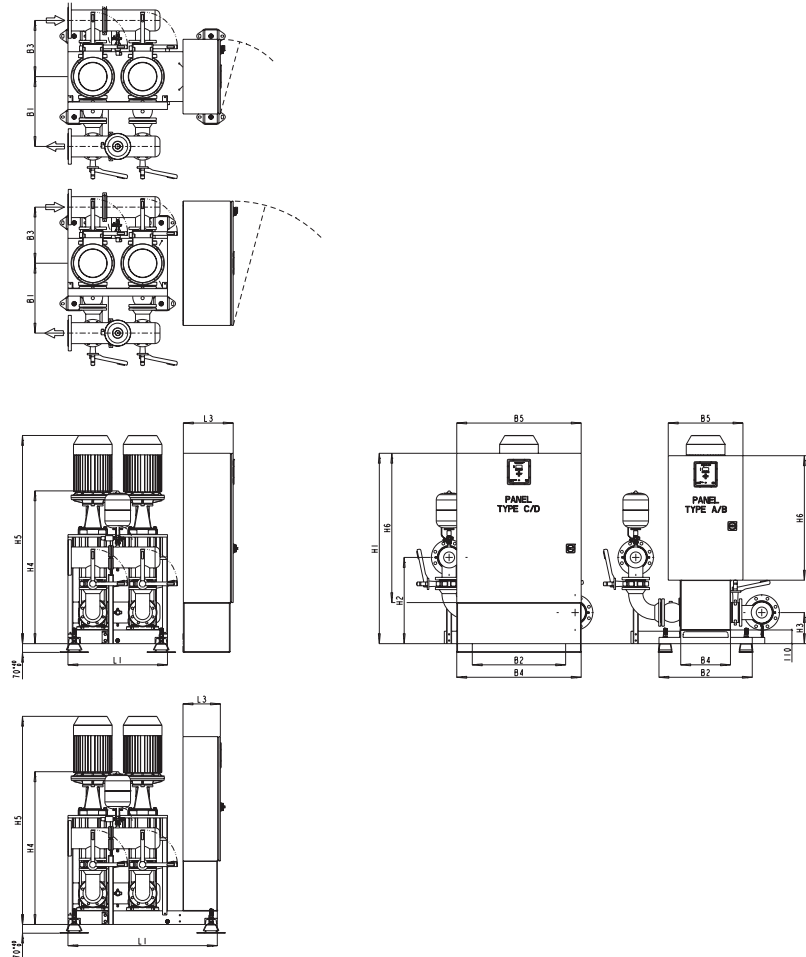


Figure 81: HU2 DPVF32/45/65/85



ATTENTION
To complete a booster set with a cabinet use OV number OV10022803

Table 108: Dimensions general

Pumptype	H2 [mm]	H3 [mm]	H4 [mm]	B2 [mm]	B3 [mm]
DPVF32	559	215	1096	750	394
DPVF45	583	215	1120	750	423
DPVF65	691	250	1254	750	450
DPVF85	691	250	1147	750	458

Table 109: General

Base frame	Base frame A/B
Membrane vessel	8 l
Connection voltage	3 x 400 V + N 50 Hz
Control panel	without control panel
Drawing number	20100736

Table 110: Detailed

Article number	st.	Fitting (mat. + conn)	Collecting pipe(mat+con)	Press class	I max PUMP	Pump speed	H5 [mm]	B1 [mm]	L1 [mm]	Mass [kg]
HU2 DPVF32										
HU26W509M00E	-50	GG NW65	AISI304 NW100	PN16	27.3A	2850 rpm	1389	424	1200	600
HU26W609M00E	-60	GG NW65	AISI304 NW100	PN16	27.3A	2850 rpm	1437	424	1200	600
HU26W703M00E	-70	AISI304 NW100	AISI304 NW100	PN25	32.0A	2850 rpm	1486	350.5	1200	630
HU26W803M00E	-80	AISI304 NW100	AISI304 NW100	PN25	32.0A	2850 rpm	1534	350.5	1200	630
HU26W903M00E	-90	AISI304 NW100	AISI304 NW100	PN25	42.2A	2850 rpm	1583	350.5	1200	660
HU26WA03M00E	-100	AISI304 NW100	AISI304 NW100	PN25	42.2A	2850 rpm	1675	350.5	1200	660
HU2 DPVF45										
HU26X319M00E	-30-1	GG NW80	AISI304 NW100	PN16	27.3A	2850 rpm	1292	471	1200	620
HU26X309M00E	-30	GG NW80	AISI304 NW100	PN16	27.3A	2850 rpm	1292	471	1200	620
HU26X419M00E	-40-1	GG NW80	AISI304 NW100	PN16	27.3A	2850 rpm	1340	471	1200	620
HU26X409M00E	-40	GG NW80	AISI304 NW100	PN16	32.0A	2850 rpm	1340	471	1200	660
HU26X519M00E	-50-1	GG NW80	AISI304 NW100	PN16	32.0A	2850 rpm	1389	471	1200	660
HU26X503M00E	-50	AISI304 NW100	AISI304 NW100	PN25	42.2A	2850 rpm	1433	381	1200	680
HU26X613M00E	-60-1	AISI304 NW100	AISI304 NW100	PN25	42.2A	2850 rpm	1481	381	1200	680
HU26X603M00E	-60	AISI304 NW100	AISI304 NW100	PN25	46.3A	2850 rpm	1530	381	1200	760
HU26X713M00E	-70-1	AISI304 NW100	AISI304 NW100	PN25	46.3A	2850 rpm	1579	381	1200	760
HU26X703M00E	-70	AISI304 NW100	AISI304 NW100	PN25	51.8A	2850 rpm	1634	381	1500	940
HU26X813M00E	-80-1	AISI304 NW100	AISI304 NW100	PN25	51.8A	2850 rpm	1682	381	1500	940
HU26X803M00E	-80	AISI304 NW100	AISI304 NW100	PN25	51.8A	2850 rpm	1682	381	1500	940
HU2 DPVF65										
HU26Y108M00E	-10	GG NW100	AISI304 NW150	PN10	7.2A	2850 rpm	996	562	1200	510
HU26Y208M00E	-20	GG NW100	AISI304 NW150	PN10	14.4A	2850 rpm	1118	562	1200	510
HU26Y308M00E	-30	GG NW100	AISI304 NW150	PN10	27.3A	2850 rpm	1235	562	1200	660
HU26Y409M00E	-40	GG NW100	AISI304 NW150	PN16	27.3A	2850 rpm	1499	562	1200	660
HU26Y509M00E	-50	GG NW100	AISI304 NW150	PN16	32.0A	2850 rpm	1588	562	1200	700
HU26Y609M00E	-60	GG NW100	AISI304 NW150	PN16	32.0A	2850 rpm	1677	562	1200	700
HU2 DPVF85										
HU26F118P00E	/1-1	GG NW100	AISI304 NW150	PN10	10.1A	2850 rpm	1108	479	1200	790
HU26F108P00E	/1	GG NW100	AISI304 NW150	PN10	13.2A	2850 rpm	1080	479	1200	790
HU26F228P00E	/2-2	GG NW100	AISI304 NW150	PN10	21.0A	2850 rpm	1392	479	1200	790
HU26F218P00E	/2-1	GG NW100	AISI304 NW150	PN10	28.2A	2850 rpm	1392	479	1200	820
HU26F208P00E	/2	GG NW100	AISI304 NW150	PN10	28.2A	2850 rpm	1392	479	1200	820
HU26F328P00E	/3-2	GG NW100	AISI304 NW150	PN10	33.6A	2850 rpm	1545	479	1200	870
HU26F318P00E	/3-1	GG NW100	AISI304 NW150	PN10	39.5A	2850 rpm	1594	479	1200	950
HU26F308P00E	/3	GG NW100	AISI304 NW150	PN10	39.5A	2850 rpm	1594	479	1200	950
HU26F429P00G	/4-2	GG NW100	AISI304 NW150	PN16	51.8A	2960 rpm	1758	389	1500	1160
HU26F419P00G	/4-1	GG NW100	AISI304 NW150	PN16	51.8A	2960 rpm	1758	389	1500	1160
HU26F409P00G	/4	GG NW100	AISI304 NW150	PN16	51.8A	2960 rpm	1758	389	1500	1160
HU26F523P00G	/5-2	AISI304 NW100	AISI304 NW150	PN25	63.5A	2850 rpm	1867	389	1500	1200
HU26F513P00G	/5-1	AISI304 NW100	AISI304 NW150	PN25	63.5A	2850 rpm	1867	389	1500	1200
HU26F503P00G	/5	AISI304 NW100	AISI304 NW150	PN25	63.5A	2850 rpm	1867	389	1500	1200
HU26F623P00G	/6-2	AISI304 NW100	AISI304 NW150	PN25	76.0A	2850 rpm	2033	389	1500	1480
HU26F613P00G	/6-1	AISI304 NW100	AISI304 NW150	PN25	76.0A	2850 rpm	2033	389	1500	1480
HU26F603P00G	/6	AISI304 NW100	AISI304 NW150	PN25	76.0A	2850 rpm	2033	389	1500	1480



5.1.2 Cabinet for HU2 DPVF32/45/65/85

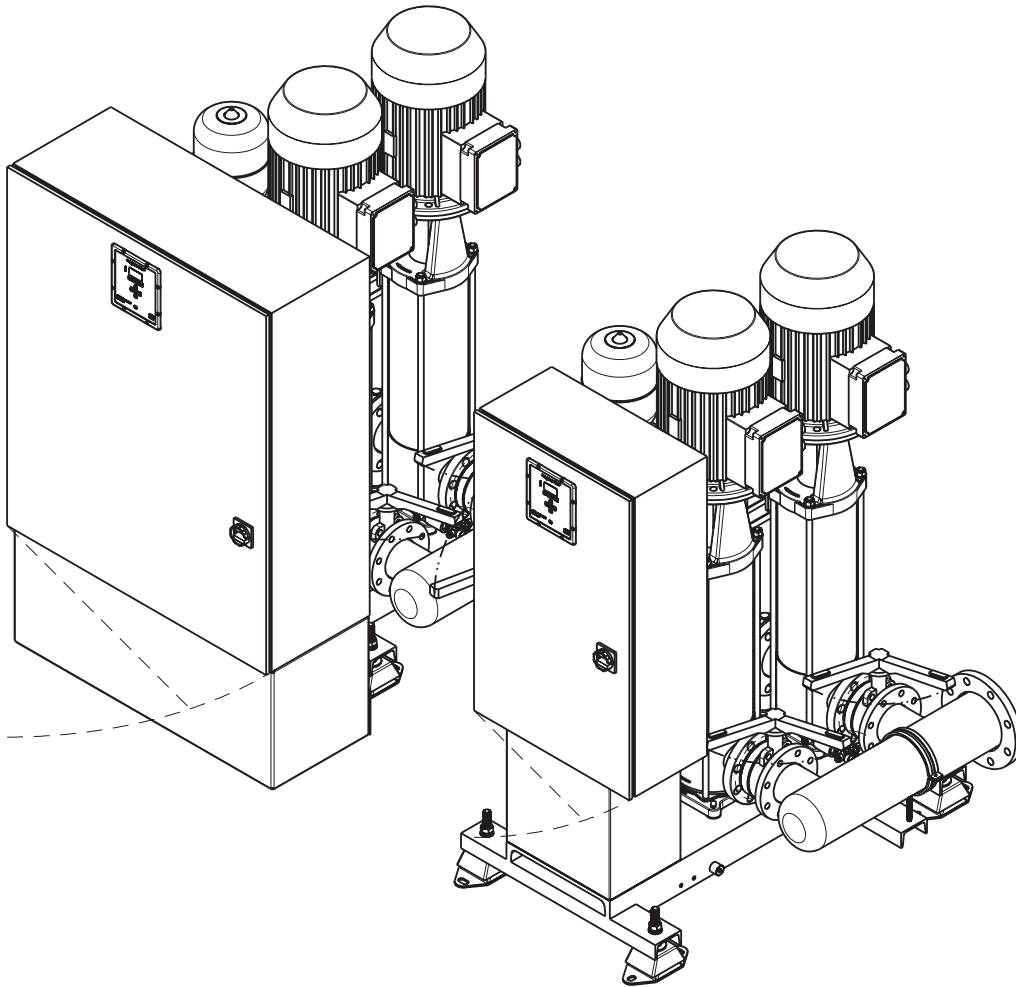


Figure 82: Cabinet HU2 DPVF32/45/65/85

20100736



ATTENTION
To complete a booster set with a cabinet use OV number OV10022803

Table 111: General

Number of pumps	2
Connection voltage	3 x 400 V + N 50 Hz
Insulation class panel	IP54
Alarm contact	2 (not urgent and urgent)
Run dry protection	universal (switch, level transmitter or pressure transmitter)
Cabinet mounting	Floor mounting

Table 112: Detailed

Art. nbr	Pump start	Ampere range	Option	Max. fuse	Wiring diagram nbr	H6xB5xDL3 [mm]	Type
DKVO 720 DOL							
9032120080	DOL	5.50 - 8.00 A	Standard	40A	EF1C10CN	800x400x300	A
9032120100	DOL	7.00 - 10.00 A	Standard	40A	EF1C10CN	800x400x300	A
9032120120	DOL	9.00 - 12.00 A	Standard	50A	EF1C10CN	800x400x300	A
9032120160	DOL	11.00 - 16.00 A	Standard	80A	EF1C10CN	1000x600x300	B
9032123080	DOL	5.50 - 8.00 A	Industrial	40A	EF1CH0CN	800x400x300	A
9032123100	DOL	7.00 - 10.00 A	Industrial	40A	EF1CH0CN	800x400x300	A
9032123120	DOL	9.00 - 12.00 A	Industrial	50A	EF1CH0CN	800x400x300	A
9032123160	DOL	11.00 - 16.00 A	Industrial	80A	EF1CH0CN	1000x600x300	B
DKVO 720 S/D							
9032220160	S/D	11.00 - 16.00 A	Standard	40A	EF1C10EN	1000x600x300	B
9032223160	S/D	11.00 - 16.00 A	Industrial	40A	EF1CH0EN	1000x600x300	B
9032223200	S/D	14.00 - 20.00 A	Industrial	50A	EF1CH0EN	1000x600x300	B
9032223250	S/D	20.00 - 25.00 A	Industrial	80A	EF1CH0EN	1000x600x300	B
9032223320	S/D	22.00 - 32.00 A	Industrial	80A	EF1CH0EN	1000x600x300	B
9032223400	S/D	28.00 - 40.00 A	Industrial	100A	EF1CH0EN	1000x600x300	B
9032223450	S/D	36.00 - 45.00 A	Industrial	100A	EF1CH0EN	1000x600x300	B
9032223500	S/D	40.00 - 50.00 A	Industrial	125A	EF1CH0PN	1200x800x400	C
9032223630	S/D	45.00 - 63.00 A	Industrial	160A	EF1CH0PN	1200x800x400	C
9032223750	S/D	57.00 - 75.00 A	Industrial	160A	EF1CH0PN	1200x800x400	C
9032223900	S/D	70.00 - 90.00 A	Industrial	250A	EF1CH0PN	1200x800x400	C
DKVO 720 SFT							
9032320080	SFT	5.50 - 8.00 A	Standard	25A	EF1C10FN	800x400x300	A
9032320100	SFT	7.00 - 10.00 A	Standard	25A	EF1C10FN	800x400x300	A
9032320120	SFT	9.00 - 12.00 A	Standard	40A	EF1C10FN	800x400x300	A
9032323080	SFT	5.50 - 8.00 A	Industrial	25A	EF1CH0FN	800x400x300	A
9032323100	SFT	7.00 - 10.00 A	Industrial	25A	EF1CH0FN	800x400x300	A
9032323120	SFT	9.00 - 12.00 A	Industrial	40A	EF1CH0FN	800x400x300	A
DKVO 720 FRK							
9032420072	FRK	7.20 A	Standard	25A	EF1C10KN	1000x600x300	B
9032420090	FRK	9.00 A	Standard	40A	EF1C10KN	1000x600x300	B
9032420120	FRK	12.00 A	Standard	50A	EF1C10KN	1000x600x300	B
9032420155	FRK	15.00 A	Standard	80A	EF1C10KN	1000x600x300	B
9032420230	FRK	23.00 A	Standard	80A	EF1C10KN	1000x600x300	B
9032423072	FRK	7.20 A	Industrial	25A	EF1CH0KN	1000x600x300	B
9032423090	FRK	9.00 A	Industrial	40A	EF1CH0KN	1000x600x300	B
9032423120	FRK	12.00 A	Industrial	50A	EF1CH0KN	1000x600x300	B
9032423155	FRK	15.00 A	Industrial	80A	EF1CH0KN	1000x600x300	B
9032423230	FRK	23.00 A	Industrial	80A	EF1CH0KN	1000x600x300	B
9032423310	FRK	31.00 A	Industrial	100A	EF1CH0KN	1000x600x300	B
9032423370	FRK	37.00 A	Industrial	100A	EF1CH0KN	1200x800x400	C
9032423412	FRK	41.20 A	Industrial	100A	EF1CH0KN	1200x800x400	C
DKVO 720 FRP							
9032423240	FRP	24.00 A	Industrial	50A	EF1CH0MN	1200x800x400	C
9032423320	FRP	32.00 A	Industrial	80A	EF1CH0MN	1200x800x400	C
9032423375	FRP	37.50 A	Industrial	100A	EF1CH0MN	1200x800x400	C
9032423440	FRP	44.00 A	Industrial	100A	EF1CH0MN	1200x800x400	C
9032423610	FRP	61.00 A	Industrial	125A	EF1CH0RN	1200x800x400	C
9032423730	FRP	73.00 A	Industrial	160A	EF1CH0RN	1200x800x400	C
9032423900	FRP	90.00 A	Industrial	250A	EF1CH0RN	1200x800x400	C
DKVO 720 FRI S/D							
9032620155	FRI S/D	11.00 - 15.50 A	Standard	50A	EF1C10IN	1000x600x300	B
9032620220	FRI S/D	17.00 - 22.00 A	Standard	80A	EF1C10IN	1000x600x300	B
9032620310	FRI S/D	22.00 - 31.00 A	Standard	80A	EF1C10IN	1000x600x300	B

