

SINGLEBOX PLUS Series

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Prefabricated lifting station for wastewater in compliance with EN 12050-1/2 standard.

Specifications

The standard station is equipped with:

- polyethylene basin with a capacity of 270 litres, equipped with a threaded pedestrian cover (100 kg max).
- Cable glands for power supply cables (and floats).
- Rp 1"1/2 or 2" delivery pipes with fast connection and ring nut for easy disassembly of the pump or with sliding device.
- 4 fast connections:
 - 2 x DN110 for inlet,
 - 1 x DN50 for ventilation and
 - 1 x DN65 for cable connection.
- 1 x DN50 fast connection for the manual pump.
- DOMO or DL submersible pump, vortex, channel impeller type or with grinder device.
- QDR control panel for three-phase versions.
- 3 rubber seal:
 - 1 x DN110, 1 x DN50 and 1 x DN65 mm.

Special versions equipped with delivery

pipes, ball check valve and gate valve.

Special versions equipped with sliding device and non-return ball valve.

Singlebox plus can be installed on the floor or buried in a suitable structure following instructions in the "Instructions and Operative Manual".

Easy installation:

- installation is quick and easy: for the single-phase versions you just connect the pipes and the electrical cables; for the three-phase versions you also need to connect the control panel.
- The new Singlebox plus is provided side handles for ease of handling.
- Pre-installed delivery pump and unions.

Ecological solution:

- tank made from 100% recyclable polyethylene.
- Airtight anti-pollution tank, pursuant to European standard EN 12050.

Easy maintenance and repair.

- Tried and tested pump technology.
- Pump quick and easy to remove



thanks to the ring nut located near the cover.

Accessories

Ball check valves

Alarm kit

Manual pump + seal

Seals kit

SINGLEBOX PLUS SERIES

Technical data

SINGLEBOX PLUS

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	CHARACTERISTICS					FEATURED COMPONENTS			VERSIONS						
	kw	HP	Q max (l/min)	H max (m)	Impeller type	Control panel	Float pre-assembles on pump	Float (10 m cable)	Standard with ring nut	Ring nut, non-return valve and gate valve	Standard	With non-return valve			
FIXED PVC PIPE FITTINGS	SINGLE-PHASE	SINGLEBOX PLUS DOMO 7	0,55	0,75	320	10,7	TWIN CHANNEL		X		X	X			
		SINGLEBOX PLUS DOMO 7VX	0,55	0,75	260	9,1	VORTEX		X		X	X			
		SINGLEBOX PLUS DOMO 10	0,75	1	500	10,1	TWIN CHANNEL		X		X	X			
		SINGLEBOX PLUS DOMO 10VX	0,75	1	400	7,7	VORTEX		X		X	X			
		SINGLEBOX PLUS DOMO 15	1,1	1,5	600	12,7	TWIN CHANNEL		X		X	X			
		SINGLEBOX PLUS DOMO 15VX	1,1	1,5	450	9,1	VORTEX		X		X	X			
	SINGLEBOX PLUS DOMO GRI 11	1,1	1,5	110	25	GRINDER		X		X	X				
	THREE-PHASE	SINGLEBOX PLUS DOMO 7T	0,55	0,75	320	10,7	TWIN CHANNEL	X		X	X	X			
		SINGLEBOX PLUS DOMO 7VXT	0,55	0,75	260	9,1	VORTEX	X		X	X	X			
		SINGLEBOX PLUS DOMO 10T	0,75	1	500	10,1	TWIN CHANNEL	X		X	X	X			
		SINGLEBOX PLUS DOMO 10VXT	0,75	1	400	7,7	VORTEX	X		X	X	X			
		SINGLEBOX PLUS DOMO 15T	1,1	1,5	600	12,7	TWIN CHANNEL	X		X	X	X			
		SINGLEBOX PLUS DOMO 15VXT	1,1	1,5	450	9,1	VORTEX	X		X	X	X			
		SINGLEBOX PLUS DOMO 20T	1,5	2	670	14,8	TWIN CHANNEL	X		X	X	X			
		SINGLEBOX PLUS DOMO 20VXT	1,5	2	550	11	VORTEX	X		X	X	X			
		SINGLEBOX PLUS DOMO GRI 11T	1,1	1,5	110	25	GRINDER	X		X	X	X			
		THREE-PHASE	SINGLEBOX PLUS DOMO 10	0,75	1	500	10,1	TWIN CHANNEL		X			X	X	
			SINGLEBOX PLUS DOMO 10VX	0,75	1	400	7,7	VORTEX		X			X	X	
			SINGLEBOX PLUS DOMO 15	1,1	1,5	600	12,7	TWIN CHANNEL		X			X	X	
	SINGLEBOX PLUS DOMO 15VX		1,1	1,5	450	9,1	VORTEX		X			X	X		
	SINGLEBOX PLUS DOMO GRI 11		1,1	1,5	110	25	GRINDER		X			X	X		
	SINGLEBOX PLUS DOMO 10T		0,75	1	500	10,1	TWIN CHANNEL	X		X		X	X		
	SINGLEBOX PLUS DOMO 10VXT		0,75	1	400	7,7	VORTEX	X		X		X	X		
	SINGLEBOX PLUS DOMO 15T		1,1	1,5	600	12,7	TWIN CHANNEL	X		X		X	X		
SINGLEBOX PLUS DOMO 15VXT	1,1		1,5	450	9,1	VORTEX	X		X		X	X			
SINGLEBOX PLUS DOMO 20T	1,5		2	670	14,8	TWIN CHANNEL	X		X		X	X			
SINGLEBOX PLUS DOMO 20VXT	1,5		2	550	11	VORTEX	X		X		X	X			
SINGLEBOX PLUS DOMO GRI 11T	1,1		1,5	110	25	GRINDER	X		X		X	X			
LOWERING DEVICE	SINGLE-PHASE	SINGLEBOX PLUS DLFM 80	0,6	0,8	350	7,6	SINGLE CHANNEL		X			X	X		
		SINGLEBOX PLUS DLFM 90	0,6	0,8	450	9,7	SINGLE CHANNEL		X			X	X		
		SINGLEBOX PLUS MINI VORTEX M	0,6	0,8	300	7,2	VORTEX		X			X	X		
		SINGLEBOX PLUS DLM 109	1,1	1,5	600	18,3	SINGLE CHANNEL		X			X	X		
		SINGLEBOX PLUS DLVM 100	1,1	1,5	500	10,6	VORTEX		X			X	X		
		SINGLEBOX PLUS DLF 80	0,6	0,8	350	7,6	SINGLE CHANNEL	X		X			X	X	
	THREE-PHASE	SINGLEBOX PLUS DLF 90	0,6	0,8	450	9,7	SINGLE CHANNEL	X		X			X	X	
		SINGLEBOX PLUS MINI VORTEX	0,6	0,8	300	7,2	VORTEX	X		X			X	X	
		SINGLEBOX PLUS DLF 105	1,1	1,5	500	14,1	SINGLE CHANNEL	X		X			X	X	
		SINGLEBOX PLUS DL 109	1,1	1,5	600	18,3	SINGLE CHANNEL	X		X			X	X	
		SINGLEBOX PLUS DLV 100	1,1	1,5	500	10,6	VORTEX	X		X			X	X	
		SINGLEBOX PLUS DLF VORTEX	1,1	1,5	500	8,4	VORTEX	X		X			X	X	
		SINGLEBOX PLUS DL 125	1,5	2	700	21,9	SINGLE CHANNEL	X		X			X	X	
		SINGLEBOX PLUS DLV 115	1,5	2	600	13,1	VORTEX	X		X			X	X	
		THREE-PHASE	SINGLEBOX PLUS DLF 80	0,6	0,8	350	7,6	SINGLE CHANNEL	X		X			X	X
			SINGLEBOX PLUS DLF 90	0,6	0,8	450	9,7	SINGLE CHANNEL	X		X			X	X
			SINGLEBOX PLUS MINI VORTEX	0,6	0,8	300	7,2	VORTEX	X		X			X	X
			SINGLEBOX PLUS DLF 105	1,1	1,5	500	14,1	SINGLE CHANNEL	X		X			X	X
	SINGLEBOX PLUS DL 109		1,1	1,5	600	18,3	SINGLE CHANNEL	X		X			X	X	
	SINGLEBOX PLUS DLV 100		1,1	1,5	500	10,6	VORTEX	X		X			X	X	

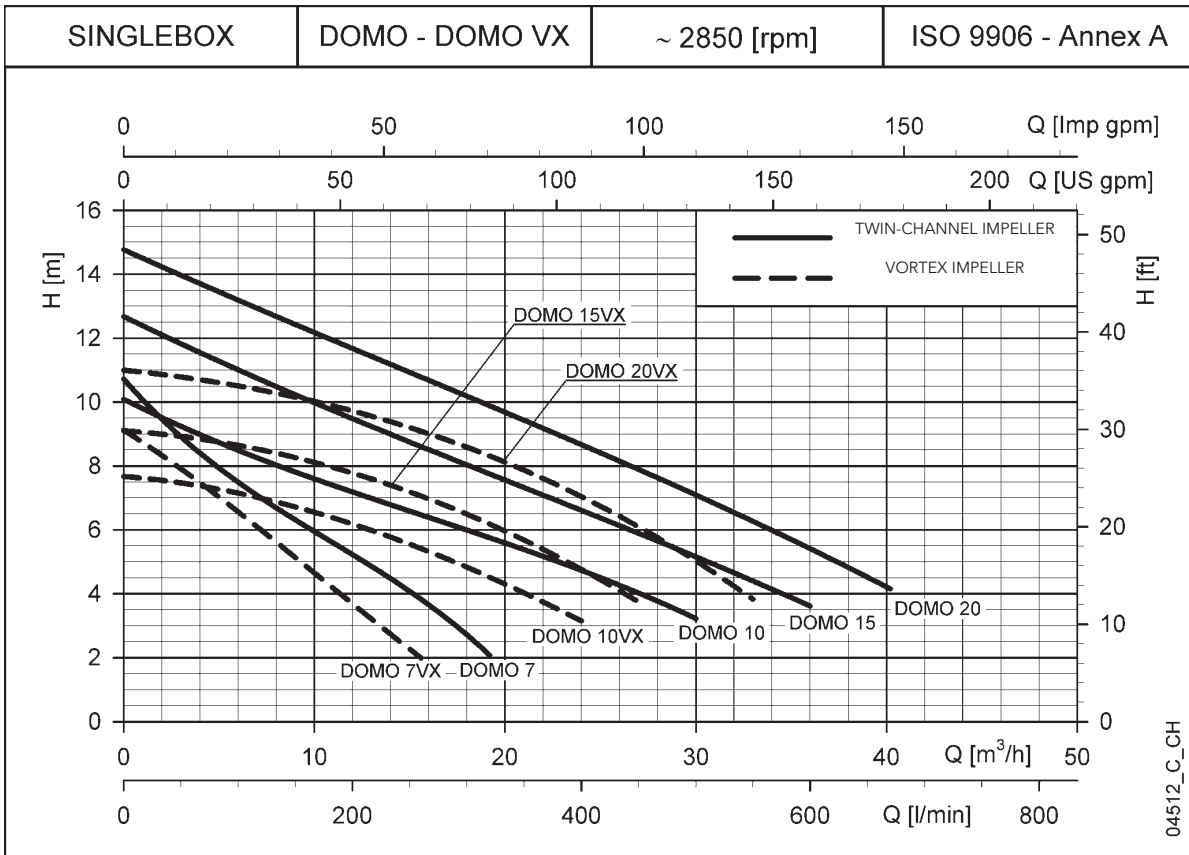
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Notes

Single-phase pumps come with start capacitor, overload protection and float switch. Versions with control panel and accessories are available on request.

SINGLEBOX PLUS SERIES

Performance table



Hydraulic performance table

DOMO	PUMP TYPE	RATED POWER		Q = DELIVERY																	
				kW		HP		H = TOTAL HEAD METRES COLUMN OF WATER													
				l/min	0	50	100	150	200	250	300	320	400	500	600	670					
				m³/h	0	3	6	9	12	15	18	19,2	24	30	36	40,2					
	DOMO 7(T)	0,55	0,75		10,7	8,9	7,5	6,3	5,2	4,1	2,7	2,1									
	DOMO 10(T)	0,75	1		10,1	9,2	8,5	7,8	7,2	6,6	6,0	5,8	4,7	3,2							
	DOMO 15(T)	1,1	1,5		12,7	11,8	11,0	10,2	9,5	8,8	8,0	7,8	6,6	5,2	3,6						
	DOMO 20T	1,5	2		14,8	14,0	13,2	12,4	11,7	10,9	10,2	9,9	8,7	7,1	5,4	4,2					

DOMO VX	PUMP TYPE	RATED POWER		Q = DELIVERY																	
				kW		HP		H = TOTAL HEAD METRES COLUMN OF WATER													
				l/min	0	80	100	150	175	200	225	260	300	400	450	550					
				m³/h	0	4,8	6	9	10,5	12	13,5	15,6	18	24	27	33					
	DOMO 7VX(T)	0,55	0,75		9,1	7,1	6,6	5,1	4,4	3,7	3,0	2,0									
	DOMO 10VX(T)	0,75	1		7,7	7,3	7,1	6,7	6,5	6,2	5,9	5,4	4,8	3,1							
	DOMO 15VX(T)	1,1	1,5		9,1	8,8	8,6	8,3	8,0	7,8	7,5	7,1	6,5	4,8	3,7						
	DOMO 20VXT	1,5	2		11,0	10,6	10,5	10,2	9,9	9,7	9,5	9,1	8,6	7,0	6,1	3,8					

These performances (referred to the single pump) are valid for liquids with density $\rho = 1,0 \text{ kg/dm}^3$ and kinematic viscosity $\nu = 1 \text{ mm}^2/\text{s}$.

sbox_domo-domovx-2p50_a_te

Electrical data

PUMP TYPE	ABSORBED POWER*		CAPACITOR	PUMP TYPE	ABSORBED POWER*		ABSORBED CURRENT*	ABSORBED CURRENT*
	SINGLE-PHASE				THREE-PHASE			
	kW	220-240 V	$\mu\text{F} / 450 \text{ V}$		kW	220-240 V	380-415 V	
DOMO 7	0,8	3,94	16	DOMO 7T	0,73	2,58	1,49	
DOMO 10	1,14	5,84	22	DOMO 10T	1,09	4,09	2,36	
DOMO 15	1,58	7,02	30	DOMO 15T	1,49	4,73	2,73	
-	-	-	-	DOMO 20T	1,96	6,6	3,81	
DOMO 7VX	0,79	3,91	16	DOMO 7VXT	0,71	2,56	1,48	
DOMO 10VX	1,15	5,88	22	DOMO 10VXT	1,1	4,09	2,36	
DOMO 15VX	1,36	6,11	30	DOMO 15VXT	1,26	4,31	2,49	
-	-	-	-	DOMO 20VXT	1,74	6,22	3,59	

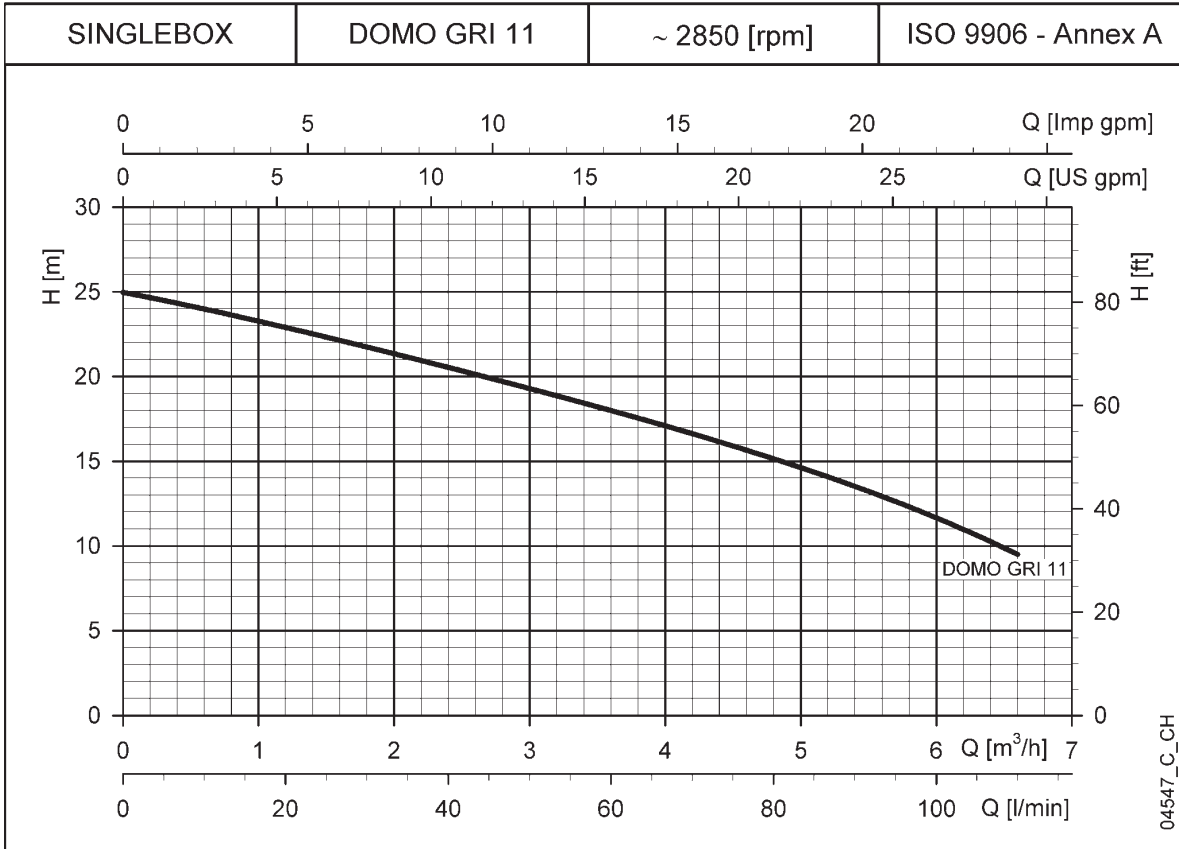
*Maximum values within operating range.

sbox_domo-domovx-2p50_a_te

SINGLEBOX PLUS SERIES DOMO GRI

Operating characteristics at 50 Hz

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Hydraulic performance table

DOMO GRI	PUMP TYPE	RATED POWER		Q = DELIVERY											
				H = TOTAL HEAD METRES COLUMN OF WATER											
				l/min	0	15	30	40	50	60	70	80	90	100	110
				m3/h	0	0,9	1,8	2,4	3	3,6	4,2	4,8	5,4	6	6,6
		kW	HP		25,0	23,5	21,7	20,5	19,3	18,0	16,6	15,2	13,5	11,7	9,5
	DOMO GRI 11	1,1	1,5												
	DOMO GRI 11T														

These performance (referred to the single pump) are valid for liquids with density $\rho = 1,0 \text{ kg/dm}^3$ and kinematic viscosity $\nu = 1 \text{ mm}^2/\text{s}$.

sbox_domo-gri-2p50-en_b_th

Electrical data

PUMP TYPE	ABSORBED POWER*	ABSORBED CURRENT*	CAPACITOR	PUMP TYPE	ABSORBED POWER*	ABSORBED CURRENT*	ABSORBED CURRENT*
SINGLE-PHASE		220-240 V		THREE-PHASE		220-240 V	380-415 V
	kW	A	$\mu\text{F} / 450 \text{ V}$		kW	A	A
DOMO GRI 11	1,5	6,84	30	DOMO GRI 11T	1,39	4,55	2,63

*Maximum values within operating range.

sbox_domo-gri-2p50-en_a_te

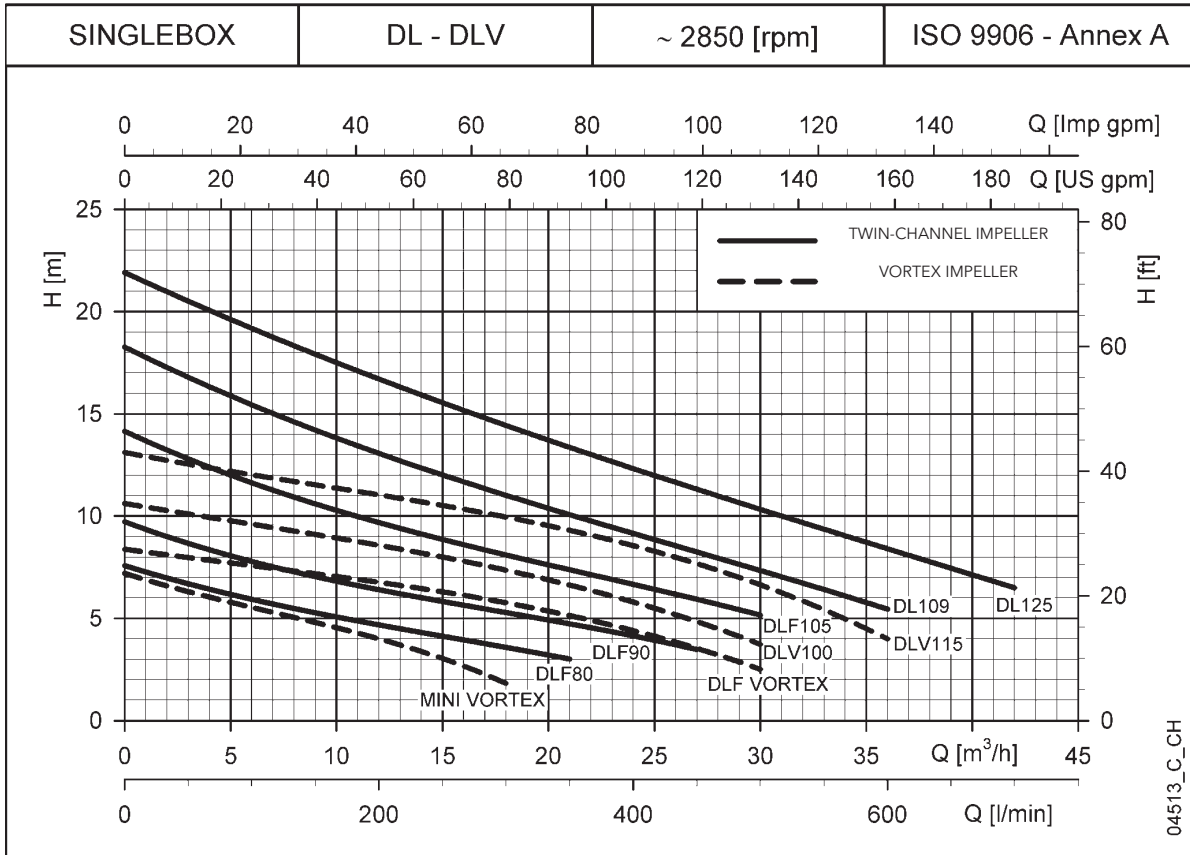
SINGLEBOX PLUS SERIES DL-DLV

Operating characteristics at 50 Hz



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Hydraulic performance table

DL	PUMP TYPE	RATED POWER		Q = DELIVERY												
				H = TOTAL HEAD METRES COLUMN OF WATER												
				l/min	0	100	150	200	250	300	350	400	450	500	600	700
		kW	HP	m³/h	0	6	9	12	15	18	21	24	27	30	36	42
	DLF(M) 80	0,6	0,8	7,6	5,9	5,3	4,7	4,1	3,6	3,0						
	DLF(M) 90	0,6	0,8	9,7	7,8	7,0	6,4	5,8	5,3	4,7	4,1	3,5				
	DLF 105	1,1	1,5	14,1	11,6	10,6	9,7	8,9	8,1	7,4	6,7	5,9	5,2			
	DL(M) 109	1,1	1,5	18,3	15,4	14,2	13,1	12,0	11,0	10,1	9,2	8,2	7,3	5,4		
	DL 125	1,5	2	21,9	19,2	17,9	16,7	15,5	14,4	13,4	12,3	11,3	10,3	8,4	6,5	

DLV	PUMP TYPE	RATED POWER		Q = DELIVERY												
				H = TOTAL HEAD METRES COLUMN OF WATER												
				l/min	0	50	100	150	200	250	300	350	400	450	500	600
		kW	HP	m³/h	0	3	6	9	12	15	18	21	24	27	30	36
	MINI VORTEX(M)	0,6	0,8	7,2	6,3	5,5	4,8	4,0	3,0	1,8						
	DLF VORTEX	1,1	1,5	8,4	8,0	7,6	7,2	6,8	6,3	5,8	5,1	4,4	3,5	2,5		
	DLV(M) 100	1,1	1,5	10,6	10,1	9,6	9,1	8,6	8,0	7,4	6,6	5,8	4,8	3,7		
	DLV 115	1,5	2	13,1	12,5	12,0	11,5	11,0	10,5	9,9	9,3	8,5	7,7	6,6	4,0	

These performances (referred to the single pump) are valid for liquids with density $\rho = 1,0 \text{ kg/dm}^3$ and kinematic viscosity $\nu = 1 \text{ mm}^2/\text{s}$. sbox_dl-dlv-2p50_b_th

Electrical data

PUMP TYPE	ABSORBED POWER*		CAPACITOR	PUMP TYPE	ABSORBED POWER*		ABSORBED CURRENT*	ABSORBED CURRENT*
	SINGLE-PHASE	kW			A	THREE-PHASE		
DLFM 80	0,79	3,91	25	DLF 80	0,80	-	2,09	
DLFM 90	0,89	4,27	25	DLF 90	0,92	3,81	2,20	
-	-	-	-	DLF 105	1,43	4,66	2,69	
DLM109	1,55	6,87	35	DL 109	1,54	5,44	3,14	
-	-	-	-	DL 125	2,14	6,58	3,80	
MINI VORTEX M	1,05	4,82	25	MINI VORTEX	1,10	-	2,36	
-	-	-	-	DLF VORTEX	1,66	5,11	2,95	
DLVM100	1,64	7,3	35	DLV 100	1,65	5,63	3,25	
-	-	-	-	DLV 115	2,25	6,81	3,93	

*Maximum values within operating range.

sbox_dl-dlv-2p50_b_te