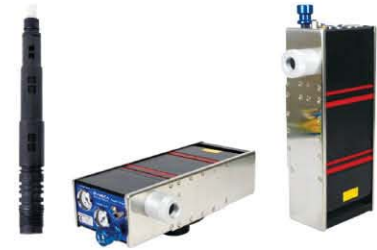


VACUUM PUMPS / Mega pump – Cartridge type

VCML100 / VCML100L

Features and Strengths

- Integrated VMECA Vacuum Cartridge technology
- High vacuum flow to replace motor pump
- Easy maintenance
- Excellent performance in leakage application and in conveying system
- for granules, transferring bulk materials and powder



Specifications

Description	VCML100	VCML100L
Max. Vacuum level	-92 kPa	-75 kPa
Open Vacuum flow	1364 NI/min	1,448 NI/min
Max. Feed pressure	7 bar	7 bar
Temperature	-20 ~ 80 °C	-20 ~ 80 °C
Noise level	60 ~ 65 dBA	60 ~ 65 dBA
Weight	5,520 g	5,518 g

Vacuum Flow

Model	Max. vacuum (-kPa)	Feed Pressure (bar)	Vacuum flow (NI/min) at different vacuum levels (-kPa)									
			0	10	20	30	40	50	60	70	80	90
VCML100	75	2.2	1208	490	352	212	126	114	66	18	-	-
	92	3.0	1352	608	424	256	132	128	88	66	26	7.6
	92	4.0	1364	616	510	376	276	172	93	69	28	8.4
VCML100L	60	4.0	1208	688	440	280	184	112	27	-	-	-
	70	5.0	1376	784	520	328	200	150	92	45	-	-
	75	6.0	1448	828	616	400	208	152	128	88	-	-

Evacuation Time

Model	Feed Pressure (bar)	Air Consumption (NI/min)	Evacuation time in sec / liter to reach different vacuum levels (-kPa)								
			10	20	30	40	50	60	70	80	90
VCML100	2.2	388	0.005	0.02	0.027	0.08	0.10	0.18	0.40	-	-
	3.0	472	0.004	0.018	0.02	0.07	0.09	0.16	0.20	0.30	0.95
	4.0	608	0.003	0.01	0.01	0.02	0.05	0.10	0.15	0.25	0.85
VCML100L	4.0	280	0.0089	0.023	0.04	0.07	0.09	0.2	-	-	-
	5.0	340	0.0057	0.018	0.03	0.063	0.075	0.1	0.2	-	-
	6.0	416	0.0053	0.015	0.029	0.052	0.071	0.09	0.15	-	-

VCML200 / VCML200L

Features and Strengths

- Integrated VMECA Vacuum Cartridge technology
- High vacuum flow to replace motor pump
- Easy maintenance
- Excellent performance in leakage application and in conveying system
- for granules, transferring bulk materials and powder



Specifications

Description	VCML200	VCML200L
Max. Vacuum level	-92 kPa	-75 kPa
Open Vacuum flow	2,728 NI/min	2,896 NI/min
Max. Feed pressure	7 bar	7 bar
Temperature	-20 ~ 80 °C	-20 ~ 80 °C
Noise level	60 ~ 65 dBA	60 ~ 65 dBA
Weight	5,523 g	5,530 g

Vacuum Flow

Model	Max. vacuum (-kPa)	Feed Pressure (bar)	Vacuum flow (NI/min) at different vacuum levels (-kPa)									
			0	10	20	30	40	50	60	70	80	90
VCML200	75	2.2	2416	980	704	424	252	228	132	36	-	-
	92	3.0	2704	1216	848	512	264	256	176	132	52	15.2
	92	4.0	2728	1232	1020	752	552	344	186	138	56	16.8
VCML200L	60	4.0	2416	1376	880	560	368	224	54	-	-	-
	70	5.0	2752	1568	1040	656	400	300	184	90	-	-
	75	6.0	2896	1656	1232	800	416	304	256	176	-	-

Evacuation Time

Model	Feed Pressure (bar)	Air Consumption (NI/min)	Evacuation time in sec / liter to reach different vacuum levels (-kPa)								
			10	20	30	40	50	60	70	80	90
VCML200	2.2	784	0.0029	0.0098	0.0363	0.0413	0.06	0.096	0.21	-	-
	3.0	896	0.0024	0.0074	0.0163	0.0325	0.055	0.086	0.121	0.1975	0.481
	4.0	1072	0.0023	0.0066	0.01	0.0188	0.0325	0.07	0.1075	0.195	0.473
VCML200L	4.0	560	0.0045	0.0115	0.02	0.035	0.045	0.1	-	-	-
	5.0	680	0.0029	0.009	0.015	0.0315	0.0375	0.05	0.1	-	-
	6.0	832	0.0027	0.0075	0.0145	0.026	0.0355	0.045	0.075	-	-

VACUUM PUMPS / Mega pump – Cartridge type

VCML400 / VCML400L

Features and Strengths

- Integrated VMECA Vacuum Cartridge technology
- High vacuum flow to replace motor pump
- Easy maintenance
- Excellent performance in leakage application and in conveying system
- for granules, transferring bulk materials and powder



Specifications

Description	VCML400	VCML400L
Max. Vacuum level	-92 kPa	-75 kPa
Open Vacuum flow	5,456 NI/min	5,792 NI/min
Max. Feed pressure	7 bar	7 bar
Temperature	-20 ~ 80 °C	-20 ~ 80 °C
Noise level	60 ~ 65 dBA	60 ~ 65 dBA
Weight	5,270 g	5,262 g

Vacuum Flow

Model	Max. vacuum (-kPa)	Feed Pressure (bar)	Vacuum flow (NI/min) at different vacuum levels (-kPa)									
			0	10	20	30	40	50	60	70	80	90
VCML400	75	2.2	4832	1960	1408	848	504	456	264	72	-	-
	92	3.0	5408	2432	1696	1024	528	512	352	264	104	30.4
	92	4.0	5456	2464	2040	1504	1104	688	372	276	112	33.6
VCML400L	60	4.0	4832	2752	1760	1120	736	448	108	-	-	-
	70	5.0	5504	3136	2080	1312	800	600	368	180	-	-
	75	6.0	5792	3312	2464	1600	832	608	512	352	-	-

Evacuation Time

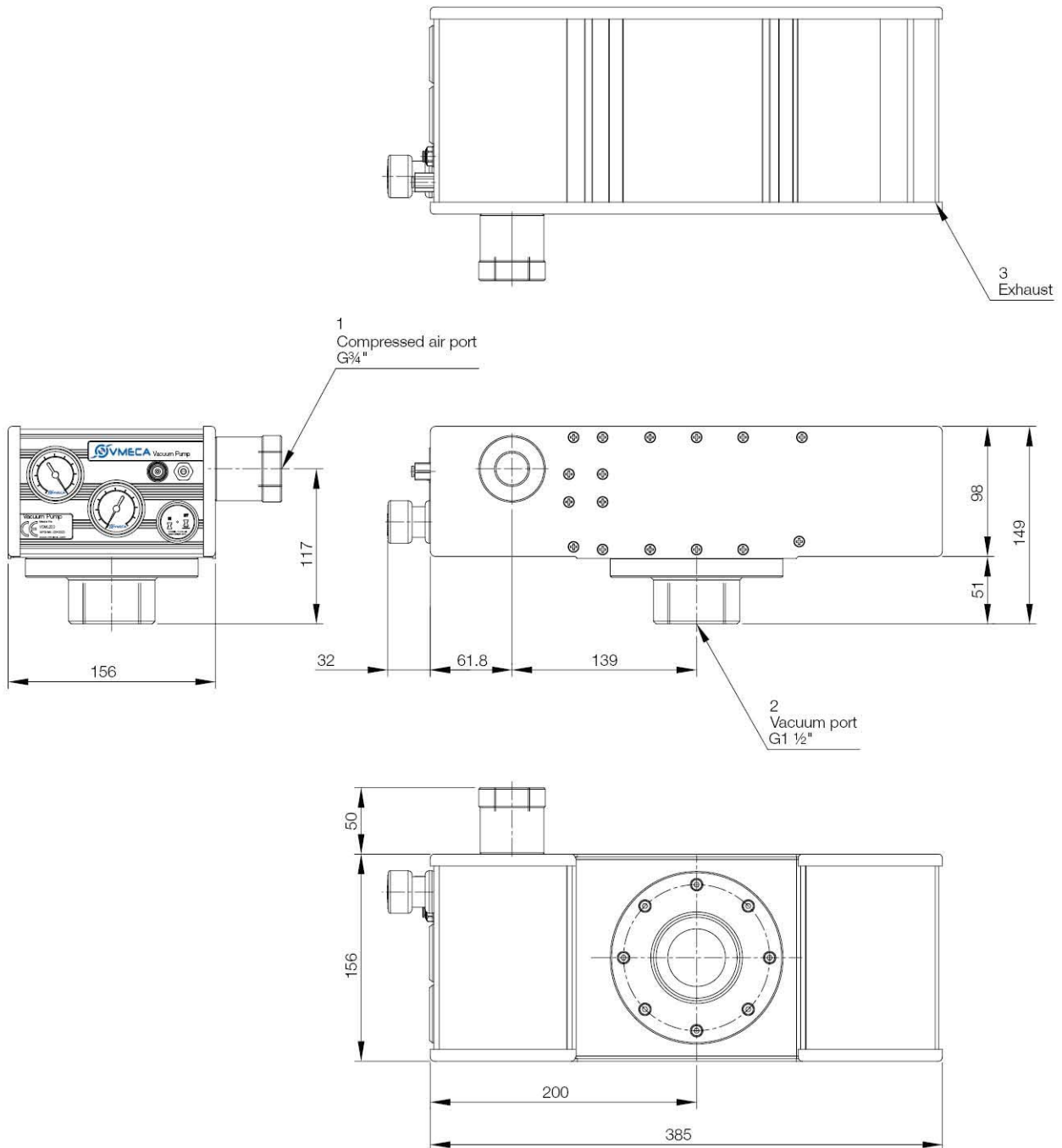
Model	Feed Pressure (bar)	Air Consumption (NI/min)	Evacuation time in sec / liter to reach different vacuum levels (-kPa)									
			10	20	30	40	50	60	70	80	90	
VCML400	2.2	1586	0.0014	0.0049	0.0181	0.0206	0.03	0.048	0.105	-	-	
	3.0	1792	0.0012	0.0037	0.0081	0.0163	0.0275	0.0431	0.0606	0.0988	0.2406	
	4.0	2144	0.0011	0.0033	0.005	0.0094	0.0163	0.035	0.0538	0.0975	0.2363	
VCML400L	4.0	1120	0.0022	0.0058	0.01	0.0175	0.0225	0.05	-	-	-	
	5.0	1360	0.0014	0.0045	0.0075	0.0158	0.0188	0.0250	0.05	-	-	
	6.0	1664	0.0013	0.0038	0.0073	0.013	0.0178	0.0225	0.0375	-	-	

VACUUM PUMPS / Mega pump – Cartridge type

I Dimension – Basic Pump

[Unit : mm]

Free flow exhaust duct Type

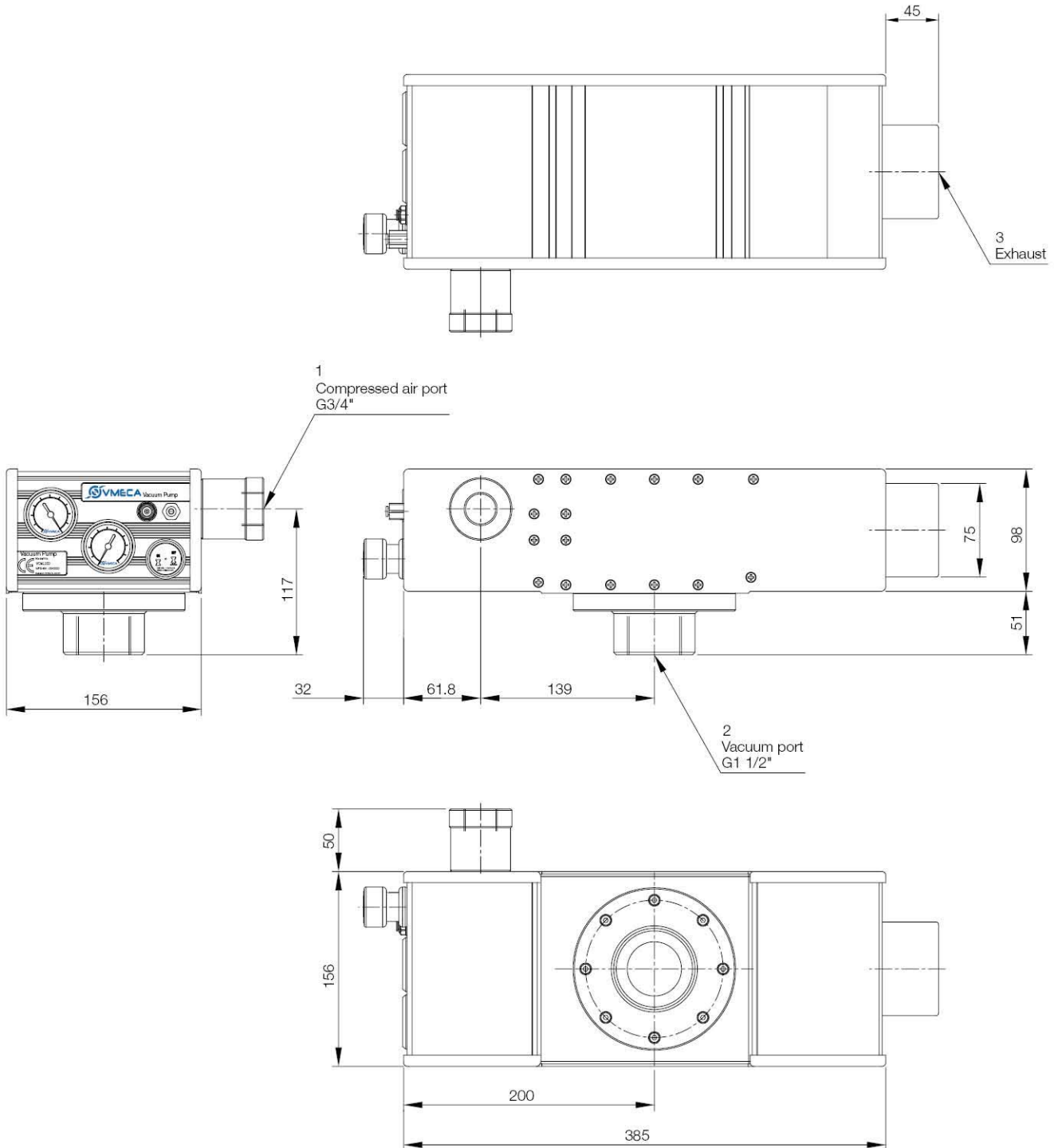


VCML100(L)-VCML400(L)

I Dimension – Basic Pump

[Unit : mm]

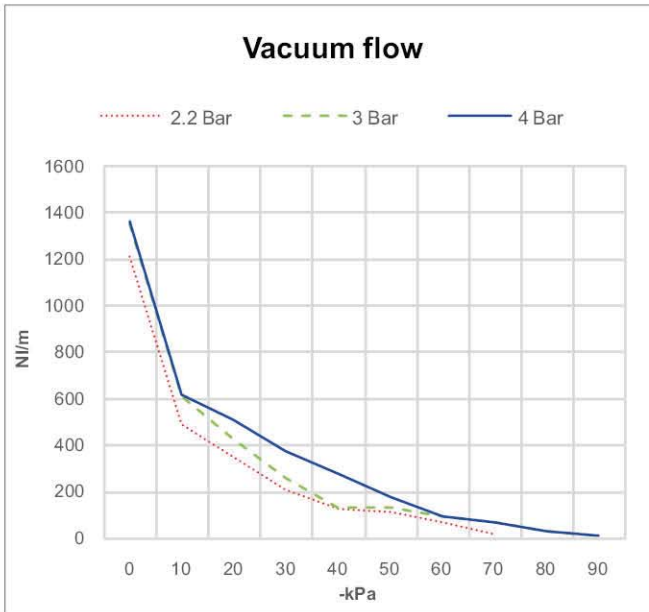
CP (Concentration port) Type



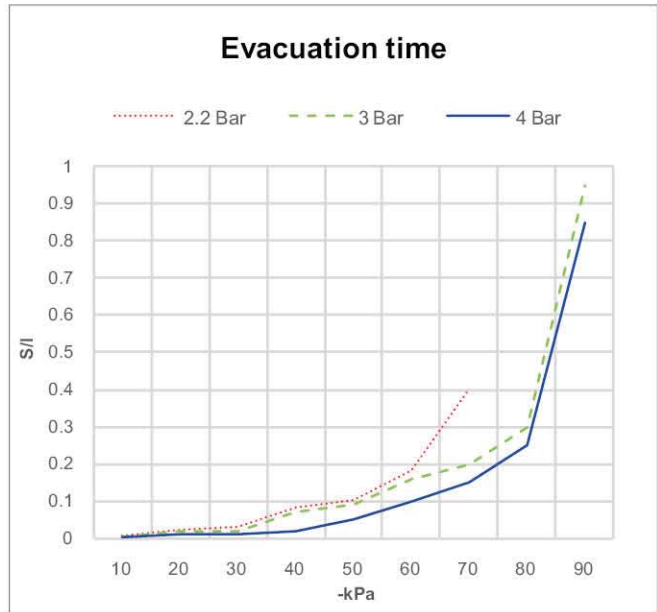
VACUUM PUMPS / Mega pump – Cartridge type

Performance data

VCML100

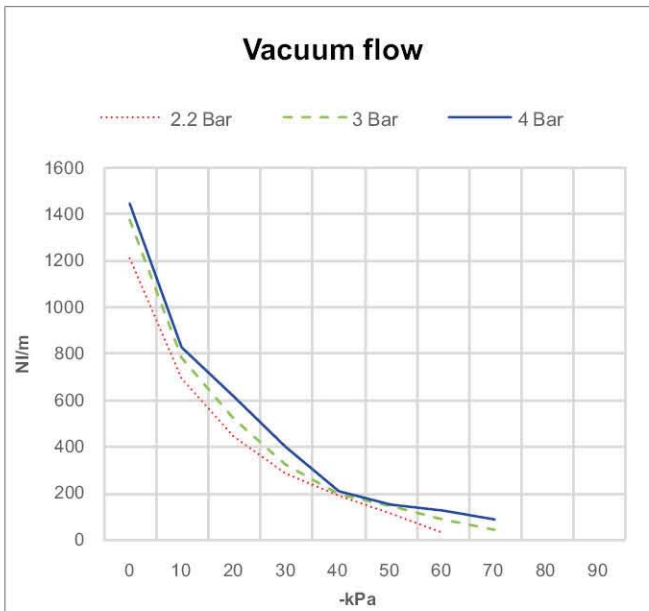


※ Vacuum flow at different vacuum level

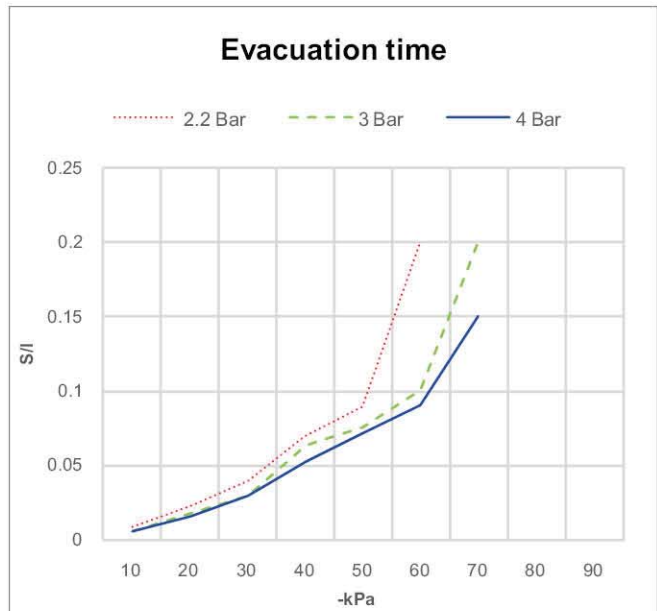


※ Time to evacuate a volume at different vacuum level

VCML100L



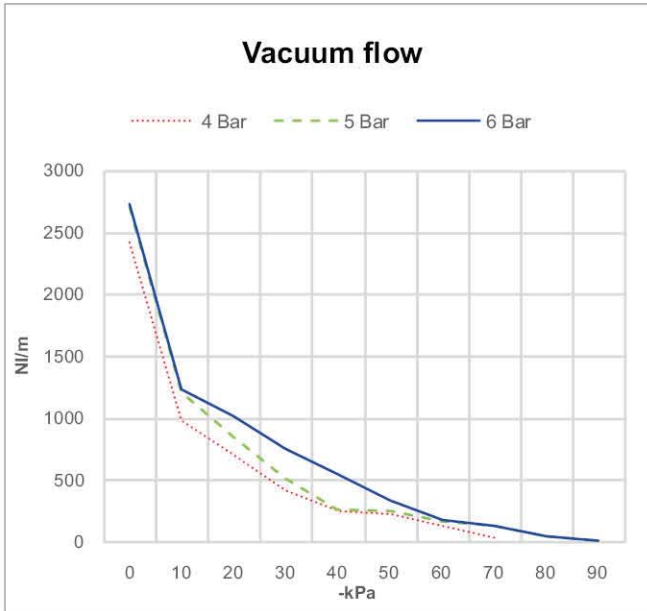
※ Vacuum flow at different vacuum level



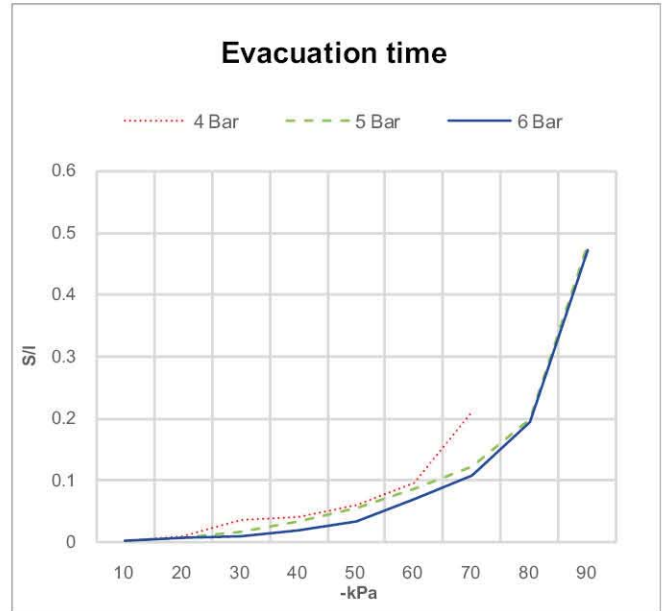
※ Time to evacuate a volume at different vacuum level

Performance data

VCML200

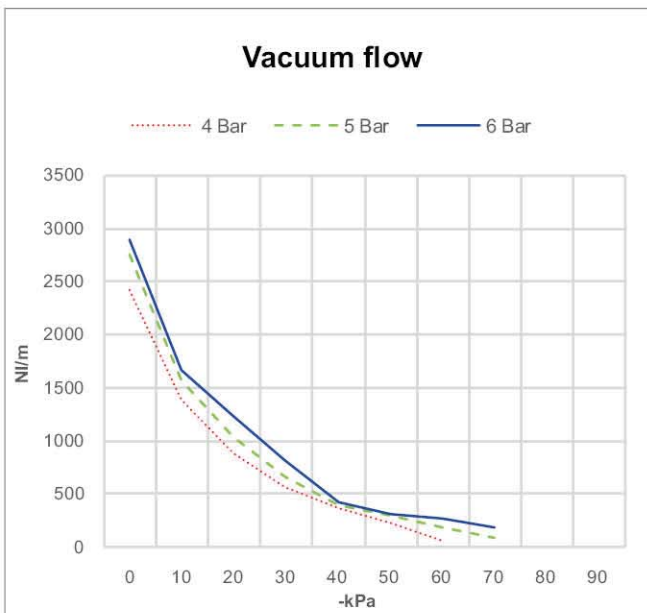


※ Vacuum flow at different vacuum level

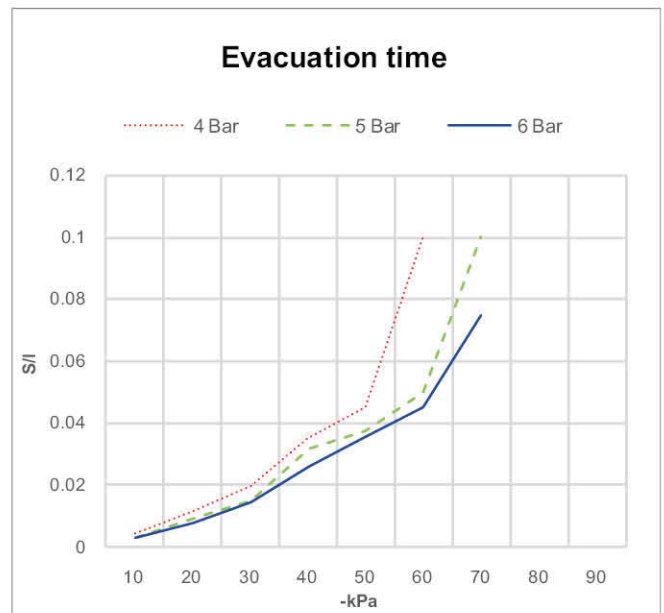


※ Time to evacuate a volume at different vacuum level

VCML200L



※ Vacuum flow at different vacuum level

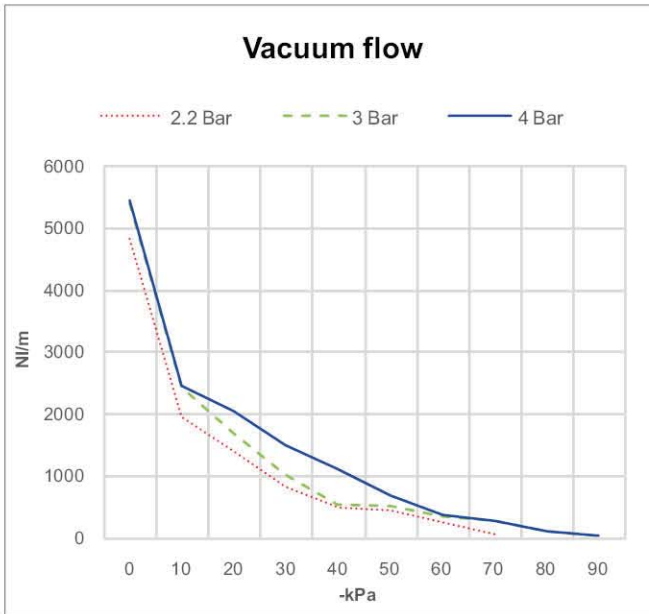


※ Time to evacuate a volume at different vacuum level

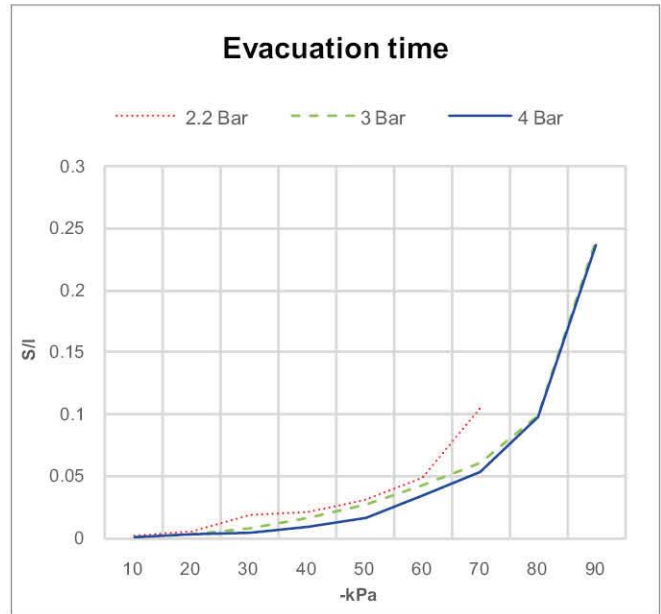
VACUUM PUMPS / Mega pump – Cartridge type

Performance data

VCML400

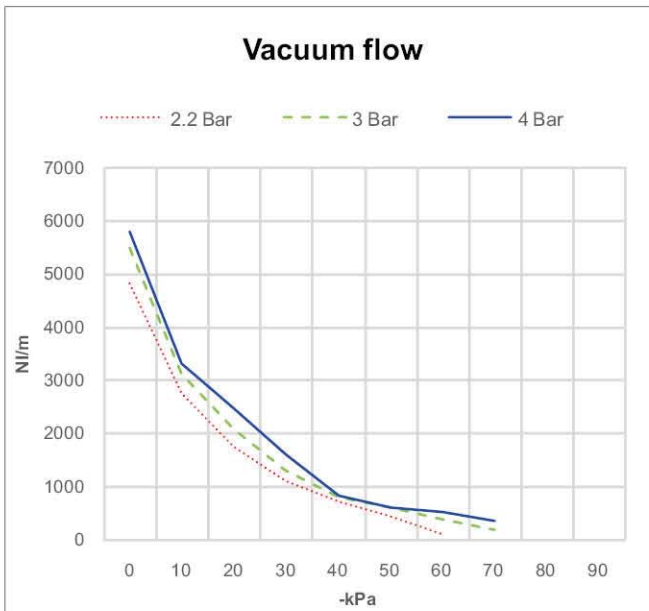


※ Vacuum flow at different vacuum level

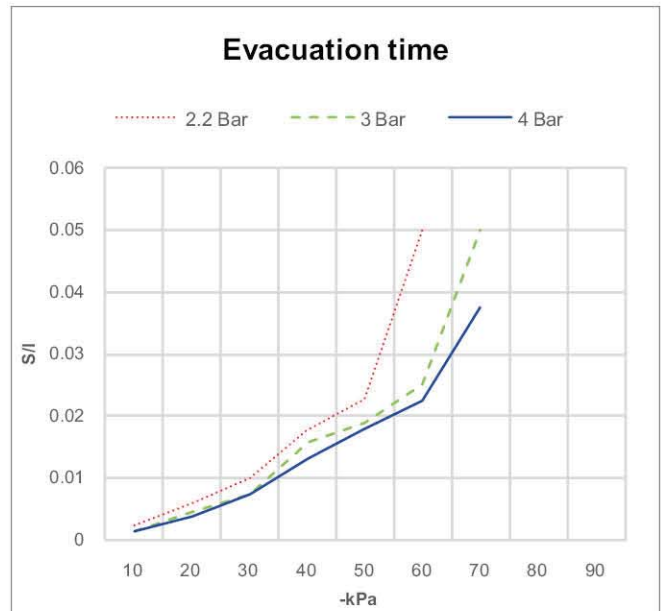


※ Time to evacuate a volume at different vacuum level

VCML400L



※ Vacuum flow at different vacuum level

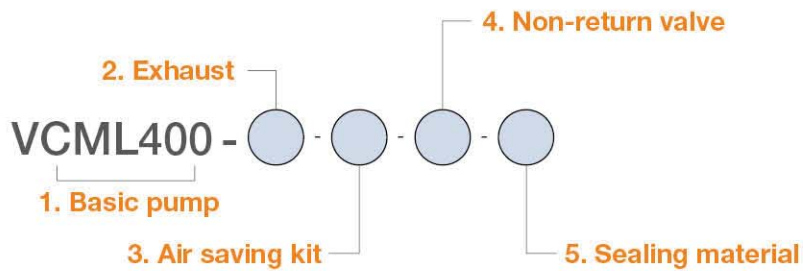


※ Time to evacuate a volume at different vacuum level

I Performance data

VACUUM PUMPS / Mega pump

I Build an Ordering No.



1. Basic pump	Description	Symbol
	VCML Pump, 100 Series, G 1-1/2" Vacuum Port, G 3/4" Air Supply Port	VCML100
	VCML Pump, 200 Series, G 1-1/2" Vacuum Port, G 3/4" Air Supply Port	VCML200
	VCML Pump, 400 Series, G 1-1/2" Vacuum Port, G 3/4" Air Supply Port	VCML400
	VCML Pump "L" cartridge, 100 Series, G 1-1/2" Vacuum Port, G 3/4" Air Supply Port	VCML100L
	VCML Pump "L" cartridge, 200 Series, G 1-1/2" Vacuum Port, G 3/4" Air Supply Port	VCML200L
	VCML Pump "L" cartridge, 400 Series, G 1-1/2" Vacuum Port, G 3/4" Air Supply Port	VCML400L
2. Exhaust	Description	Symbol
	Free flow exhaust duct	No mark
	Concentration port	CP
3. Air saving kit	Description	Symbol
	No air saving kit	Blank
	Air saving kit without air control valve	AS
4. Non-return valve	Description	Symbol
	No non-return valve	Blank
	Non-return valve: No need with Air saving kit	N
5. Sealing material	Description	Symbol
	NBR	Blank
	VITON	V
	EPDM	E

I Spare Parts – Basic pumps

Part No.	Description	Weight (g)
VCML100	VCML Pump, Cartridge, 100 Series, G 1-1/2" Vacuum Port, G 3/4" Air Supply Port	5,220
VCML200	VCML Pump, Cartridge, 200 Series, G 1-1/2" Vacuum Port, G 3/4" Air Supply Port	5,234
VCML400	VCML Pump, Cartridge, 400 Series, G 1-1/2" Vacuum Port, G 3/4" Air Supply Port	5,270
VCML100L	VCML Pump, "L" cartridge, 100 Series, G 1-1/2" Vacuum Port, G 3/4" Air Supply Port	5,218
VCML200L	VCML Pump, "L" cartridge, 200 Series, G 1-1/2" Vacuum Port, G 3/4" Air Supply Port	5,230
VCML400L	VCML Pump, "L" cartridge, 400 Series, G 1-1/2" Vacuum Port, G 3/4" Air Supply Port	5,262

I Spare Parts – Cartridges

Part No.	Description	Available model
VC303	Midi Vacuum Cartridge, 3-Stage	VCML100, VCML200, VCML400
VCL303	Midi Vacuum Cartridge, "L" Series, 3-Stage	VCML100L, VCML200L, VCML400L