

DANFOSS VACON®

100 FLOW

frequency controller for pumps, fans
and compressors



Drives

Description

Vacon 100 Flow is an AC drive dedicated to improving flow control in water & waste water and building automation applications. It combines the core functionality of Vacon 100 with dedicated functions that are specifically designed with flow control application processes in mind.

Vacon 100 Flow is available in a number of frame sizes with either IP21/UL type 1 or IP54/UL type 12 approved enclosures. It has a power range of 0.55 kW/0.75 HP to 160 kW/250 HP and a voltage range of 230 V to 690 V.

Applications

- o sewage installations
- o pressure booster sets
- o multi-pump installations
- o cooling and chilling
- o building automation
- o fan controlling
- o geothermal
- o industry

Specifications

- o power: up to 800 kW
- o continuous current: up to 1180 A
- o voltages:
 - 3-phase 208-240 / 380-500 / 525-690 Volt
- o 50-60 Hz
- o frame size: MR4 – MR10, MR12
- o separated cooling for control and power board
- o EMC filter according EN 61800-3 category 2 build-in
- o protection: IP00, IP21, IP54 (enclosed)
- o communication up to 8 controllers
- o start-up wizard
- o led indication



Specifications and dimensions for Vacon 100 Flow

Voltage supply 380-480 Volt, 50/60 Hz, 3 ~

FRAME SIZE	TYPE AC DRIVE	LOADABILITY	MOTOR SHAFT POWER		DIMENSIONS b x h x d mm	WEIGHT kg	ENCLOSED	
		LOW (+ 40 °C)	400 Volt	480 Volt			dimensions	weight
		CONTINUOUS CURRENT I_L	10% OVERLOAD 40 °C	10% OVERLOAD 40 °C				
		(A)	kW	POWER HP				
MR4	0003	3.4	1.1	1.5	128 × 328 × 190 mm	6 kg		
	0004	4.8	1.5	2.0				
	0005	5.6	2.2	3.0				
	0008	8.0	3.0	5.0				
	0009	9.6	4.0	5.0				
MR5	0012	12.0	5.5	7.5	144 × 419 × 214 mm	10 kg		
	0016	16.0	7.5	10				
	0023	23.0	11.0	15.0				
MR6	0031	31.0	15.0	20.0	195 × 557 × 229 mm	20 kg		
	0038	38.0	18.5	25.0				
	0046	46.0	22.0	30.0				
MR7	0061	61.0	30.0	40.0	237 × 660 × 259 mm	37,5 kg		
	0072	72.0	37.0	50.0				
	0087	87.0	45.0	60.0				
MR8	0105	105.0	55.0	75.0	290 × 966 × 343 mm	66 kg		
	0140	140.0	75.0	100.0				
	0170	170.0	90.0	125.0				
MR9	0205	205.0	110.0	150.0	480 × 1150 × 365 mm	108 kg		
	0261	261.0	132.0	200.0				
	0310	310.0	160.0	250.0				
MR10	0385	385.0	200.0	300.0	508 × 980 × 525 mm	205 kg	606 × 2100 × 600 mm	420 kg
	0460	460.0	250.0	350.0				
	0520	520.0	250.0	450.0				
	0590	590.0	315.0	500.0				
	0650	650.0	355.0	500.0				
MR12	0730	730.0	400.0	600.0	1016 × 980 × 525 mm	410 kg	1212 × 2100 × 600 mm	850 kg
	0820	850.0	450.0	700.0				
	0920	920.0	500.0	800.0				
	1040	1040.0	560.0	900.0				
	1180	1180.0	630.0	1000.0				