

Technical Data			EcoDry M 15		EcoDry M 20	
			3-phase motor	FC motor ¹⁾	3-phase motor	FC motor ¹⁾
No. of cylinders			3	3	3	3
No. of stages			3	3	2	2
Max. pumping speed						
50 Hz ²⁾	m ³ x h ⁻¹ (cfm)		14 (8.2)	—	19 (11.2)	—
60 Hz ²⁾	m ³ x h ⁻¹ (cfm)		16 (9.4)	—	22 (12.9)	—
at 750 rpm	50/60 Hz ²⁾	m ³ x h ⁻¹ (cfm)	—	11 (6.5)	—	14 (8.2)
at 1000 rpm	50/60 Hz ²⁾	m ³ x h ⁻¹ (cfm)	—	15 (8.8)	—	18 (10.5)
at 1200 rpm	50/60 Hz ²⁾	m ³ x h ⁻¹ (cfm)	—	16 (9.4)	—	22 (12.9)
Ultimate total pressure ³⁾						
3-phase motor	60 Hz	mbar (Torr)	5.5 x 10 ⁻² (4.1 x 10 ⁻²)	—	8 x 10 ⁻¹ (6 x 10 ⁻¹)	—
FC motor ¹⁾	at 1000 rpm					
	50/60 Hz	mbar (Torr)	—	5.5 x 10 ⁻² (4.1 x 10 ⁻²)	—	8 x 10 ⁻¹ (6 x 10 ⁻¹)
Max. permissible inlet pressure			Atmosphere	Atmosphere	Atmosphere	Atmosphere
Max. permissible permanent inlet pressure						
	mbar (Torr)		100 (75)	100 (75)	100 (75)	100 (75)
Water vapor tolerance (with gas ballast)						
	mbar (Torr)		25 (18.8)	25 (18.8)	25 (18.8)	25 (18.8)
Leak rate (integral)						
	mbar x l x s ⁻¹		≤ 1 x 10 ⁻⁴	≤ 1 x 10 ⁻⁴	≤ 1 x 10 ⁻⁴	≤ 1 x 10 ⁻⁴
Power consumption at < 10 mbar (7.5 Torr) inlet pressure						
	W (hp)		300 (0.41)	280 (0.38)	300 (0.41)	280 (0.38)
Motors			-5 % to +5 %		-5 % to +5 %	
3-phase (IP 54)						
50 Hz	V		220-240/346-415	—	220-240/346-415	—
60 Hz	V		200-277/380-480	—	200-277/380-480	—
FC motor, 50/60 Hz (IP 44)						
	V		—	90-264	—	90-264
Rotational speed						
with 3-phase motor	50 / 60 Hz	rpm	1000 / 1200	—	1000 / 1200	—
with FC motor	50 / 60 Hz	rpm	—	750/1000/1200	—	750/1000/1200
via analog interface 0-10 V						
	50 / 60 Hz	rpm	—	750-1200, variable	—	750-1200, variable
Noise level at ultimate pressure without gas ballast (50 Hz at 3-phase and 750 rpm with FC motor)						
	dB(A)		≤ 59	≤ 59	≤ 59	≤ 59
Ambient temperature						
	°C		0 to + 50	0 to + 50	0 to + 50	0 to + 50
	(°F)		(32 to + 122)	(32 to + 122)	(32 to + 122)	(32 to + 122)
Connection						
Inlet port fitting	DN		25 KF	25 KF	25 KF	25 KF
Exhaust port fitting	DN		25 KF	25 KF	25 KF	25 KF
Dimensions, approx. (L x W x H)						
standard, flanges at motor side						
vertically installed	mm		545 x 182 x 356	598 x 182 x 356	545 x 182 x 356	598 x 182 x 356
	(in.)		(21.5 x 7.17 x 14.0)	(23.5 x 7.17 x 14.0)	(21.5 x 7.17 x 14.0)	(23.5 x 7.17 x 14.0)
horizontal installed	mm		545 x 356 x 211	598 x 356 x 211	545 x 356 x 211	598 x 356 x 211
	(in.)		(21.5 x 14.0 x 8.3)	(23.5 x 14.0 x 8.3)	(21.5 x 14.0 x 8.3)	(23.5 x 14.0 x 8.3)
Weight, approx.						
	kg (lbs)		40.5 (89.4)	47.0 (103.8)	40.5 (89.4)	47.0 (103.8)

¹⁾ FC motor = Frequency Controlled Motor

²⁾ According to DIN 28400 and subsequent numbers

³⁾ At delivery

Technical Data, 50 Hz		EcoDry M 30	
		3-phase motor	FC motor ¹⁾
No. of cylinders		4	4
No. of stages		3	3
Max. pumping speed			
50 Hz ²⁾	m ³ x h ⁻¹ (cfm)	27 (15.9)	–
60 Hz ²⁾	m ³ x h ⁻¹ (cfm)	30 (17.7)	–
at 750 rpm	50/60 Hz ²⁾ m ³ x h ⁻¹ (cfm)	–	19 (11.2)
at 1000 rpm	50/60 Hz ²⁾ m ³ x h ⁻¹ (cfm)	–	25 (14.7)
at 1200 rpm	50/60 Hz ²⁾ m ³ x h ⁻¹ (cfm)	–	30 (17.7)
Ultimate total pressure ³⁾			
3-phase motor 60 Hz	mbar (Torr)	5.5 x 10 ⁻² (4.1 x 10 ⁻²)	–
FC motor ¹⁾ at 1000 rpm			
50/60 Hz	mbar (Torr)	–	5.5 x 10 ⁻² (4.1 x 10 ⁻²)
Max. permissible inlet pressure		Atmosphere	Atmosphere
Max. permissible permanent inlet pressure	mbar (Torr)	100 (75)	100 (75)
Water vapor tolerance (with gas ballast)	mbar (Torr)	25 (18.8)	25 (18.8)
Leak rate (Integral)	mbar x l x s ⁻¹	≤ 1 x 10 ⁻⁴	≤ 1 x 10 ⁻⁴
Power consumption at < 10 mbar (7.5 Torr) inlet pressure	W (hp)	450 (0.6)	330 (0.45)
Motors		-5 % to +5 %	
3-phase (IP 54)			
50 Hz	V	220-240/346-415	–
60 Hz	V	200-277/380-480	–
FC motor, 50/60 Hz (IP 44)	V	–	90-264
Rotational speed			
with 3-phase motor 50 / 60 Hz	rpm	1000 / 1200	–
with FC motor 50 / 60 Hz	rpm	–	750/1000/1200
via analog interface 0-10 V			
50 / 60 Hz	rpm	–	750-1200, variable
Noise level at ultimate pressure without gas ballast (50 Hz at 3-phase and 750 rpm with FC motor)	dB(A)	≤ 59	≤ 59
Ambient temperature	°C (°F)	0 to + 50 (32 to + 122)	0 to + 50 (32 to + 122)
Connection			
Inlet port fitting	DN	25 KF	25 KF
Exhaust port fitting	DN	25 KF	25 KF
Dimensions, approx. (L x W x H) standard, flanges at motor side			
vertically installed	mm (in.)	709 x 182 x 369 (27.9 x 7.17 x 14.5)	713 x 182 x 369 (28.1 x 7.17 x 14.5)
horizontal installed	mm (in.)	709 x 369 x 211 (27.9 x 14.5 x 8.3)	713 x 369 x 211 (28.1 x 14.5 x 8.3)
Weight, approx.	kg (lbs)	53 (117)	59 (130.2)

¹⁾ FC motor = Frequency Controlled Motor

²⁾ According to DIN 28400 and subsequent numbers

³⁾ At delivery

Ordering Information

EcoDry M 15

	3-phase motor	FC motor ¹⁾
EcoDry M		
3-phase motor	Part No. 130 000	-
FC motor, 90 - 264 V	-	Part No. 130 005
FC motor, 90 - 264 V and silencing hood	-	Part No. 130 006
Exhaust silencer	Part No. 130 050	Part No. 130 050
Vibration absorber (set of 4 pieces)	Part No. 130 051	Part No. 130 051
Vibration absorbing kit	Part No. 130 052	Part No. 130 052
Solenoid gas ballast valve	Part No. 169 50	Part No. 169 50

Ordering Information

EcoDry M 20

	3-phase motor	FC motor ¹⁾
EcoDry M		
3-phase motor	Part No. 130 010	-
FC motor, 90 - 264 V	-	Part No. 130 015
FC motor, 90 - 264 V and silencing hood	-	Part No. 130 016
Exhaust silencer	Part No. 130 050	Part No. 130 050
Vibration absorber (set of 4 pieces)	Part No. 130 051	Part No. 130 051
Vibration absorbing kit	Part No. 130 052	Part No. 130 052
Solenoid gas ballast valve	Part No. 169 50	Part No. 169 50

Ordering Information

EcoDry M 30

	3-phase motor	FC motor ¹⁾
EcoDry M		
3-phase motor	Part No. 130 030	-
FC motor, 90 - 264 V	-	Part No. 130 033
FC motor, 90 - 264 V and silencing hood	-	Part No. 130 034
Exhaust silencer	Part No. 130 050	Part No. 130 050
Vibration absorber (set of 4 pieces)	Part No. 130 051	Part No. 130 051
Vibration absorbing kit	Part No. 130 052	Part No. 130 052
Solenoid gas ballast valve	Part No. 169 50	Part No. 169 50

¹⁾ FC motor = Frequency Controlled Motor