

Description

1.3 Technical Data

Model		SC 5 D		SC 15 D		SC 30 D		SC 60 D		
		50 Hz		60 Hz		50 Hz		60 Hz		
60 Hz										
Displacement (swept volume)	l · min ⁻¹	90	108	250	300	500	600	1000	1200	
	m ³ · h ⁻¹	5	6,48	15	18	30	36	60	72	
	cfm	3.1	3.8	8.8	10.6	17.6	21.2	35.3	42.3	
Pumping speed ¹	l · min ⁻¹	80	93	210	230	420	500	880	1020	
	m ³ · h ⁻¹	4,8	6,2	13,6	16,4	26,3	31,5	52	62	
	cfm	2.8	3.6	8	9.6	15.4	18.5	31.0	36.0	
Ultimate pressure	Pa	≤ 5		≤ 1.6		≤ 1.0		≤ 1.0		
	mbar	≤ 0.05		≤ 0.016		≤ 0.01		≤ 0.01		
	Torr	≤ 0.037		≤ 0.012		≤ 0.0075		≤ 0.0075		
Leak rate ³	mbar · l · s ⁻¹	1.0 · 10 ⁻⁶		1.0 · 10 ⁻⁶		1.0 · 10 ⁻⁶		1.0 · 10 ⁻⁴		
Max. inlet pressure		Atmospheric pressure								
Ambient operating temperature range	°C	5 - 40		5 - 40		5 - 40		5 - 40		
Gas temperature at inlet	°C	max. 50		max. 50		max. 50		max. 50		
Inlet connection	DN	25		25		40		40		
Exhaust connection	DN	16		16		25		40		
Cooling		Air cooling								
Protection class	IP	20		20		20		20		
Class of equipment		Class 1								
Miscellaneous		With operating hours counter und purge gas connection								
Water vapour tolerance at 25 °C, humidity 60 %, with opened purge gas ⁴	g/day	5		25		25		25		
	l · min ⁻¹	9		10		10		10		

1.3.1 Motor Data

Motor data

SC 5 D

Type	Single-phase induction motor / Motor 4P / totally enclosed insulation class B IP 44 thermal protector TP 212 - automatic reset type					
Power consumption	W	150				
Voltage	V	100	115	200	230	
Rated current	50 Hz	A	2.6	-	1.3	1.6
	60 Hz	A	2.1	2.2	1.1	1.1
Speed at	50 Hz	min ⁻¹	1430	-	1430	1440
	60 Hz	min ⁻¹	1730	1740	1730	1740
Noise level ² at 1m dB(A) with purge gas open (ON)	≤ 52 dB(A)	≤ 57				
Direction of inlet	Vertical					
Dimensions (L x W x H)	mm	308 x 214 x 225				
Weight	kg	14				
Part numbers	133 100			133 000		

Motor Data

SC 15 D

Type	Single ph. induction motor 4P totally enclosed insulation class B / IP 44 thermal protector TP 212 automatic reset type				Three-phase induction motor ⁵ 4P totally enclosed insulation class B / IP 44								
Power consumption	kW	0.4				0.4							
Voltage	V	100	115	200	230	200	208	230	380	400	415	460	
Rated current	50 Hz	A	4.8	-	2.6	2.4	1.6	-	-	0.9	0.9	1.0	-
	60 Hz	A	4.8	4.3	2.8	2.4	1.9	1.9	1.8	-	-	-	1.0
Speed at	50 Hz	min ⁻¹	1440	-	1430	1450	1420	-	-	1440	1440	1440	-
	60 Hz	min ⁻¹	1710	1740	1700	1730	1660	1660	1690	-	-	-	1720
Noise level ² at 1m dB(A) with purge gas open (ON)	≤ 58 dB(A)	≤ 66											
Direction of inlet	Vertical												
Dimensions (L x W x H)	mm	400 x 252 x 336					370 x 252 x 336						
Weight	kg	25					23						
Part numbers	133 101			133 001			133 003						

Description

Motor Data

SC 30 D

Type		Single-phase induction motor 4P totally enclosed insulation class B / IP 44 thermal protector TP 212 automatic reset type	Three-phase induction motor ⁵ 4P totally enclosed insulation class B / IP 44
Power consumption	kW	0.6	0.6
Voltage	V	100 115 200 230	200 208 230 380 400 415 460
Rated current	50 Hz	A 8.5 - 4.3 3.9	2.7 - - 1.57 1.57 1.63 -
	60 Hz	A 10 8.6 4.8 4.0	2.8 2.6 2.5 - - - 1.47
Speed at	50 Hz	min ⁻¹ 1430 - 1430 1450	1460 - - 1470 1470 1470 -
	60 Hz	min ⁻¹ 1660 1720 1690 1730	1740 1740 1760 - - - 1770
Noise level ² at 1m with purge gas open (ON)		dB(A) ≤ 62	≤ 60
		dB(A) ≤ 70	≤ 68
Direction of inlet		Horizontal (arranged at the side)	
Dimensions (L x W x H)	mm	443 x 328 x 372 (443 x 298 x 397)	372 x 328 x 372 (372 x 298 x 397)
Weight	kg	44	38
Part numbers		133 102 133 002	133 004

Motor Data

SC 60 D

Type		Three-phase induction motor ⁵ 4P totally enclosed insulation class B / IP44
Power consumption	kW	1.4
Voltages	V	200 208 230 380 400 415 460
Rated current	50 Hz	A 5.5 -- -- 3.3 3.6 3.8 --
	60 Hz	A 5.8 5.8 5.7 -- -- -- 3.5
Speed at	50 Hz	min ⁻¹ 1460 -- -- 1470 1470 1470 --
	60 Hz	min ⁻¹ 1730 1740 1750 -- -- -- 1760
Noise level ² at 1m with purge gas open (ON)		dB(A) 67
		dB(A) 74
Direction of inlet		Horizontal (arranged at the side)
Dimensions (L x W x H)	mm	467 x 390 x 421
Weight	kg	60
Part numbers		133 008

*Cannot operate at 115V/50 Hz, 208V/50Hz, 230V/50Hz, 460V/50 Hz, 380V/60 Hz or 415V/60 Hz

Note 1: Pumping speed remains unchanged independently of whether the purge gas inlet is open or closed

Note 2: Noise level is measured at ultimate pressure in an anechoic room

Note 3: The leak rate is measured when the pump is stopped and the purge gas supply is closed (condition as delivered)

Note 4: When the pump is delivered, the purge gas inlet is closed

Note 5: The three-phase motors do not have internal thermal protection. Be sure to install the protection from the side of the remaining system.