	F-Drive 6 - 75	PM / 08-22
	screw compressor - oil injected - air cooled	data

F-Drive 45

50Hz

(Important: Performance data related to nominal voltage)

			45
Electrical data	Operating pressure min. - max.	bar(g)	5 - 13 (0,1 bar gradation)
	Nominal drive motor power	kW (hp)	45 (75)
	Nominal voltage	V	400
	Drive motor enclosure / Insulation class		IP66 / ISO F
	Nominal drive motor efficiency (max.)	%	96,5
	Drive motor min. - max. speed	rpm	1000-3955
	Nominal fan motor power	kW (hp)	1,1 (1.5)
Airend	Airend type		BSA33S
	Male rotor speed max.	rpm	3955
Cooling data	Compr. air temp. at 20°C ambient and max. pressure	°C	30
	Ambient temp. standard (min / max)	°C	3 - 45
	Cooling air capacity fan	m³/h	8000
	Static back pressure (at 35° / 40° / 45°C)	Pa	
Dimensions / weight / others	Dimensions l x w x h	mm	1305x1105x1890
	Weight compressor	kg	1500
	Compressed air outlet	"	G1 1/2
	Oil capacity	l	35
	Residual oil content of air	mg/m³ (ppm)	2 - 4 (1 - 3)
	Noise level at 100% load (EN ISO 2151)	dB(A)	70
	Total heat rejection	kW	54
	Heat rejection in oil cooler	kW	40

F-Drive 45
50Hz
(Important: Performance data related to nominal voltage)

5 bar			
n	m³/min	P1 (kW)	Pspez.
500	0,93	7,70	8,32
1000	2,11	13,27	6,28
1500	3,34	19,10	5,72
2000	4,57	25,16	5,51
2500	5,73	31,43	5,49
3000	6,88	37,99	5,52
3500	8,06	44,93	5,57
3955	9,14	51,73	5,66

6 bar			
n	m³/min	P1 (kW)	Pspez.
500	0,90	8,59	9,52
1000	2,09	14,47	6,94
1500	3,31	20,70	6,26
2000	4,53	27,20	6,01
2500	5,69	33,94	5,96
3000	6,86	40,96	5,97
3500	8,05	48,32	6,00
3790	8,74	52,79	6,04

7 bar			
n	m³/min	P1 (kW)	Pspez.
500	0,88	9,47	10,78
1000	2,06	15,68	7,62
1500	3,27	22,30	6,81
2000	4,49	29,24	6,51
2500	5,66	36,46	6,44
3000	6,83	43,93	6,43
3500	8,03	51,70	6,44
3630	8,34	53,78	6,45

8 bar			
n	m³/min	P1 (kW)	Pspez.
500	0,85	10,35	12,11
1000	2,03	16,88	8,31
1500	3,24	23,90	7,37
2000	4,45	31,28	7,03
2500	5,63	38,97	6,92
3000	6,81	46,90	6,89
3465	7,93	54,51	6,87

9 bar			
n	m³/min	P1 (kW)	Pspez.
500	0,83	11,23	13,53
1000	2,00	18,9	9,03
1500	3,21	25,50	7,95
2000	4,41	33,33	7,55
2500	5,60	41,48	7,41
3000	6,79	49,88	7,35
3300	7,51	55,01	7,32

10 bar			
n	m³/min	P1 (kW)	Pspez.
750	1,39	15,62	11,23
1000	1,98	19,29	9,77
1500	3,18	27,09	8,53
2000	4,38	35,37	8,08
2500	5,57	43,99	7,90
3000	6,76	52,85	7,82
3135	7,09	55,27	7,79

11 bar			
n	m³/min	P1 (kW)	Pspez.
1000	1,95	20,50	10,52
1500	3,14	28,69	9,13
2000	4,34	37,41	8,62
2500	5,54	46,50	8,40
2970	6,67	55,26	8,29

12 bar			
n	m³/min	P1 (kW)	Pspez.
1250	2,50	25,91	10,36
1500	3,11	30,29	9,74
2000	4,30	39,45	9,18
2500	5,51	49,01	8,90
2800	6,23	54,78	8,81

13 bar			
n	m³/min	P1 (kW)	Pspez.
1500	3,05	31,89	10,45
2000	4,26	41,50	9,74
2500	5,48	51,52	9,41
2640	5,81	54,38	9,35

Remark: P1 = total package power compressor

Effective volume flow and total package power compressor in accordance with ISO 1217 / Annex C



- The compressor temperature should be between 70 °C and 100 °C.
- A warning is given at 105 °C.
- At 110 °C the screw compressor is automatically switched off.

1. Check compressor temperature.

8.4.4 Checking the contamination of the radiators

Staff:

- Specialist staff

Protective equipment:

- Safety shoes
- Protective clothing
- Light respiratory protection
- Safety goggles
- Protective gloves

1. Switch off the screw compressor and secure it against being switched on again.
2. Close the shut-off valve on the pressure mains side and secure it against reopening.
3. Open and remove sound insulation covers with special key.
4. Check compressed air and coolant radiator from inside and outside for contamination.
5. Remove soiling.



Dirt can be removed, for example, by blowing it out. Make sure that the dirt is blown out of the machine and not into it. In case of heavy soiling, consult the manufacturer.

2.7 Securing against restarting



WARNING!

Danger to life due to unauthorised or uncontrolled reconnection!

Unauthorised or uncontrolled restarting of the machine can lead to serious injuries or even death.

- Before switching on again, make sure that all safety devices are mounted and in working order and that there is no danger to persons.
- Always follow the procedure described below for securing against restarting.

Securing against restarting

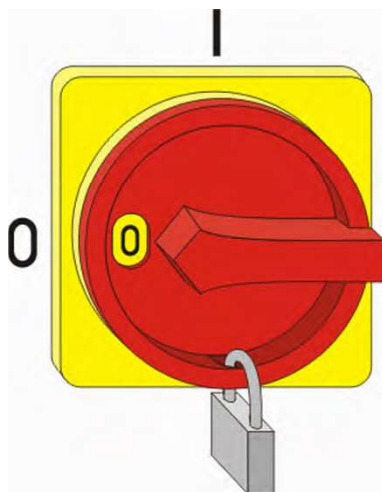


Fig. 4: Secure main switch

1. Switch off the power supply. To do this, turn the main switch to position "0".
2. Secure the main switch with a lock (Fig. 4).
3. Have the key of the lock kept by a responsible member of staff.
4. After all work has been carried out, make sure that there is no danger to persons.
5. Ensure that all safety and protective devices are installed and in working order.



WARNING!

Danger to life due to unauthorised reconnection!

If the main switch is secured with a lock, persons may be in the danger zone. Switching on the power supply can cause life-threatening injuries to these persons.

- Before removing the lock and reconnecting the power supply, make sure that there is no danger to persons.

6. Remove the lock from the main switch.



If no main switch is installed, proceed as described below.