

	Scheda Tecnica Compressore Compressor Technical Datasheet	Document Nr. BORA 5,5-10-270 ES_V91PS92SHAB72_EN_INTERNAL	
		Date Creation:	2024-02
		Date Rev. File:	07/02/2024
		Filled by: R&D	Checked by: Customer Care

Compressor Model: BORA 5,5-10-270 ES

V91PS92SHAB72

GENERAL DATA				
Nominal input power	kW HP	5,5 7,5		
Min/Max pressure limits	bar psi	5 ÷ 10 73 ÷ 145		
Supply frequency	Hz	50		
Main voltage supply value	V - ph	400 ±5%	-	n.ph 3~
Auxiliary voltage supply value	V - ph	24 ±5%	-	n.ph 1~
Drive type	-	Direct 1:1		
Air-end model	-	FS26 TFC20		
Electronic controller model	-	LOGIN		
Entire compressor IP grade	-	IP 20		
Ambient Working Temperature	°C	min. +2	-	max. +45

WORKING DATA				
Working pressure	bar psi	10 145		
Air flow (acc. to ISO 1217 Annex C and Annex E for variable speed compressors)	l/min m ³ /min c.f.m.	710 0,71 25		
Total absorbed power at full load (+ dryer)	kW	7,1	+	0,26
Total absorbed power at idle	kW	2,74		
Specific power absorption	kW/m ³ /min	10,00		
Starting current / Rated current / Dryer current	A	30	/	11,8 / 3,1
Max final air temperature above ambient	°C	20		
Removed heat	kJ/h	18800		
Sound pressure (acc. to ISO 3744:2010 - ISO 3745:2012-Annex A)	dB(A)	62		± 3 dB(A)

ELECTRIC MOTOR				
Electric motor type & Nominal power (acc. to IEC 60034-1)	kW	ASYN	-	5,5
Efficiency class & Efficiency value (acc. to IEC 60034-30-1:2014)	-	IE3	-	89,2%
Synchronous speed	min ⁻¹	3000		
Size & Construction form	-	112	-	IM B3B9
IP degree of protection and insulation class of the electric motor	-	IP 55	-	class F
Service factor	-	1,15		

VENTILATOR				
Type and number of installed fans	-	Radial	-	n. 1
Nominal power	kW	0,24		
IP degree of protection & Insulation class of the fan	-	IP44	-	class F
Fan flow rate	m ³ /h	923		
Static pressure	Pa	427		

LUBRICANT		
Type	-	RotarEcoFluid 46
Oil quantity	l	4,6
Oil carry over	mg/m ³	2 - 4

SAFETY DEVICES		
Max oil working temperature	°C	110
Pre-alarm oil working temperature	°C	105
Safety valve setting	bar	14
Protection type from electric motor overload	-	Thermal relay

DIMENSIONS & DOCUMENTATION		
Length x Width x Height	mm	1200 x 680 x 1540
Weight	kg	277
Air outlet size	G	1/2"
Dimensional drawing code	-	DIM1047
Wiring diagram code	-	#305991000
End User Compressor Manual Code	-	#197EE1420ML

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Specific Power variation depending on pressure values

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Pressure			5 bar	
Air flow			Absorbed power	Specific power
[l/min]	[m ³ /min]	[c.f.m.]	[kW]	[kW/m ³ /min]
746	0,75	26,5	5,0	6,63
Pressure			6 bar	
Air flow			Absorbed power	Specific power
[l/min]	[m ³ /min]	[c.f.m.]	[kW]	[kW/m ³ /min]
738	0,74	26,1	5,4	7,29
Pressure			7 bar	
Air flow			Absorbed power	Specific power
[l/min]	[m ³ /min]	[c.f.m.]	[kW]	[kW/m ³ /min]
731	0,73	25,8	5,8	7,98
Pressure			8 bar	
Air flow			Absorbed power	Specific power
[l/min]	[m ³ /min]	[c.f.m.]	[kW]	[kW/m ³ /min]
724	0,72	25,4	6,2	8,68
Pressure			9 bar	
Air flow			Absorbed power	Specific power
[l/min]	[m ³ /min]	[c.f.m.]	[kW]	[kW/m ³ /min]
717	0,72	25,4	6,7	9,27
Pressure			10 bar	
Air flow			Absorbed power	Specific power
[l/min]	[m ³ /min]	[c.f.m.]	[kW]	[kW/m ³ /min]
-	-	-	-	-
Pressure			11 bar	
Air flow			Absorbed power	Specific power
[l/min]	[m ³ /min]	[c.f.m.]	[kW]	[kW/m ³ /min]
-	-	-	-	-
Pressure			12 bar	
Air flow			Absorbed power	Specific power
[l/min]	[m ³ /min]	[c.f.m.]	[kW]	[kW/m ³ /min]
-	-	-	-	-
Pressure			13 bar	
Air flow			Absorbed power	Specific power
[l/min]	[m ³ /min]	[c.f.m.]	[kW]	[kW/m ³ /min]
-	-	-	-	-
Pressure			14 bar	
Air flow			Absorbed power	Specific power
[l/min]	[m ³ /min]	[c.f.m.]	[kW]	[kW/m ³ /min]
-	-	-	-	-

Compressor performance at speed modulation

(valid for variable speed compressors only)

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BORA 5,5-10-270 ES

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			Target pressure		10 bar			
ID	Motor speed	% Speed	Air flow			Absorbed power	Specific power	
	[min ⁻¹]		[l/min]	[m ³ /min]	[c.f.m.]			[kW]
1								
2								
3								
4								

