SBX Series Direct Expansion Refrigerated Air Dryers

COMPRESSORS

WHY DRY AIR?

Moisture naturally exists in our atmosphere in the form of water vapor. This same moisture is present throughout a compressed air system unless the air is treated to

The amount of water that can enter a compressed air system is substantial. For example, if inlet air conditions are 75°F and 75% relative humidity, about 6 gallons of water vapor will enter the air system with each 100 scfm of air compressed within 8 hours. If the air is compressed to 175 psig and then cooled back to 75°F, 5.4 gallons of this water vapor will condense into a liquid.

Dry air adds to productivity by saving maintenance and repair costs on pneumatic equipment. It reduces the possibility of airline rust or freeze-up, eliminates paint blemishes caused by water, and reduces product contamination.

Saylor-Beall SBX Direct Expansion Refrigerated Air Dryers are designed and manufactured to efficiently remove moisture from compressed air and assure a reliable supply of dry air.

SAYLOR-BEALL

FEATURES & BENEFITS



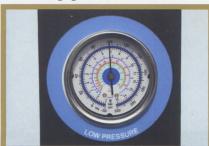
Stainless Steel Heat Exchanger

With a patented design, corrosion resistant construction and integrated moisture separator, the large surface area heat exchanger is truly unique and efficient.



Automatic Expansion Valve

The TXV ensures stable dew point performance even in changing ambient conditions.



Refrigerant Gauge Standard

Refrigerant gauge is located above the control-ler for ease of troubleshooting.



CAREL Microprocessor
Functionality monitoring text display includes power on, dew point temperature, drain operation and manual override.



Easy Installation and Start-up

Small footprint, lightweight and ready to go out of the box



Adjustable Timer Drain Standard

Timed solenoid drain is fully adjustable and ex-tremely reliable.

www.saylor-beall.com

PRODUCT SPECIFICATIONS

Model	Inlet & Outlet (1)	Rated Flow (2)		Absorbed Power (3)		Dimensions (inches)		Approx. Weight	Power Supply (V/Ph/60Hz) (4)			
	NPT/FLG	scfm	Nm³/h	kW	А	В	С	lbs	115/1	230/1	460/3	
SBX 0015	1/2"	15	24	0.22	15	18	17	55	•			
SBX 0020	1/2"	20	32	0.23	15	18	17	62	•			
SBX 0030	1/2"	30	48	0.24	15	18	17	70				
SBX 0045	1/2"	45	72	0.25	15	18	17	77				
SBX 0055	3/4"	55	88	0.47	15	20	19	84	•			
SBX 0085	3/4"	85	136	0.49	15	20	19	92	•			
SBX 0110	1"	110	177	0.92	16	29	26	143	•			
SBX 0135	1"	135	217	0.92	16	29	26	143	•			
SBX 0175	1½"	175	281	0.96	16	29	26	152	•			
SBX 0215	1½"	215	345	0.94	16	34	30	196		•		
SBX 0250	1½"	250	401	1.05	16	34	30	222		•		
SBX 0250	2"	250	401	1.47	18	47	35	253				
SBX 0340	2"	340	546	1.47	18	47	35	253		•		
SBX 0470	2"	470	754	2.50	18	47	35	297				
SBX 0550	2½"	550	883	2.60	18	47	35	319				
SBX 0725	2½"	725	1164	3.46	18	47	35	397			•	

Specifications													
design operating pressure r				0 to 232 p				0 0					
maximum inlet temperature				158°F									
maximum ambient tempera	110	0°F - 122°F	depending	on refrigera									
													•
Drossino Connection F	a at a va (5)												•
													₩
Pressure Correction Finlet air pressure (psig)	actors ⁽⁵⁾ 58	72	87	100	115	130	145	160	175	190	204	218	232

inlet air temperature (°F)	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155
correction factor	1.27	1.19	1.09	1.00	0.91	0.78	0.71	0.63	0.56	0.52	0.48	0.44	0.40	0.36	0.33
Ambient Temperatu	re Corre	ction Fa	actors (5)											
ambient temperature (°F)		70		80			90		100			105		110	

1.06

1.00

0.96

correction factor

1.16

1.18

0.90

⁽¹⁾ ½" to 2 ½" are NPT threaded connections.

⁽²⁾ Rated flow capacity: conditions for rating dryers are in accordance with ISO7183 (Option A2). Compressed air at dryer inlet: 100 psig (7 bar) and 100°F (38°C); ambient air temperature: 100°F (38°C); operating on 60Hz power supply.

⁽³⁾ Nominal absorbed power at rated operating conditions using 115/1/60 or 460/3/60 power supply (as applicable). For absorbed power at other voltages or conditions, contact sales@saylor-beall.com

⁽⁴⁾ Specify voltage requirements when ordering. For 575V applications, contact sales@saylor-beall.com for assistance.

⁽⁵⁾ To be used as a rough guide only. All applications should be confirmed by sizing software. Contact sales@saylor-beall.com for sizing assistance.

^{*2} year warranty with pre-filtration and non-corrosive piping system installed.