SAYLOR-BEALL MANUFACTURING CO.

COMPRESSED AIR TREATMENT SYSTEM

Cools, dries, and cleans in a compact easy-to-use package

A complete air treatment system
- Functions as an aftercooler/separator, refrigerated dryer and filter in one package
- Eliminates need for separate aftercooler and separator... accepts high temperature air (to 180°F) directly from your air compressor
- Includes a refrigerated dryer... removes moisture... eliminates troublesome water from downstream air lines and equipment
- An integral 3 micron filter removes solid contaminates and 60% of oil aerosols (for virtually oil free air add a high efficiency oil removal filter downstream)

Furnishes clean, dry air for commercial and industrial facilities with 5 to 25* horsepower compressors
- Protects pneumatic equipment from solid and liquid contaminants
- Allows compressed air equipment to work at peak efficiency
- Prolongs equipment life... reduces maintenance costs
- Eliminates the need to install and maintain point-of-use filters, separators or extractors

Easy model selection
- Pre-engineered systems...no need to select and purchase separate components
- Models matched to common compressor sizes

Easy installation
- Compact - saves valuable floor space
- No separate components to pipe together... simply connect inlet and outlet connections to the air system, plug in and it's ready to operate

Easy to use
- Continuously dries and cleans without adjustments
- Eliminates the need to frequently replace desiccants, paper rolls, etc.

Economical
- Low power usage
- Low pressure drop

High Inlet Temperature Dryer/Filter
SBR/HT Series

Features
- Compact, highly efficient heat exchangers... no internal mesh to foul... heat exchange efficiency increased by creating helix flow paths in counterflow arrangement
- Two stage separator/filter removes condensed oil and water over a wide range of flows
- Reliable condensate drain - air operated... automatically discharges water and oil from dryer without air loss... no timer to adjust
- Automatic refrigeration temperature control system maintains precise chilled air temperature - never needs adjusted for load, ambient or seasonal changes - no freeze-ups
- Fan switch - allows operation in low (35°F, *2°C*) ambients, saves energy at low loads
- Hermetic refrigeration system - requires no maintenance, no adjustments, operates as reliably as your home refrigerator
- Air reheated to save energy and prevent pipe sweating

* See Selection Chart on opposite side

Easy to install
- Free standing cabinet with feet
- Power cord with molded plug
- Staggered inlet/outlet connections makes pipe connections easy

Easy to operate
- On/Off switch - turns all components on
- Fault light - indicates overload or system malfunction

Easy to maintain
- Simple filter sleeve replacement
- Includes cleanable refrigeration condenser filter and cleanable inlet strainer

CSA certified
CFC free
Uses minimum amount of environmentally acceptable refrigerant

Made in USA
5 year heat exchanger warranty
2 year refrigeration system warranty

Capacity for flows based on 180°F, 82°C inlet (for typical applications where there is no aftercooler installed upstream)

Model Number	Flow Capacity scfm (1) @ 175 psig		Use With Air Compressor Size (hp)	Flow Capacity scfm (1) @ 150 psig		Use With Air Compressor Size (hp)	Flow Capacity scfm (1) @ 125 psig		Use With Air Compressor Size (hp)	Flow Capacity scfm (1) @ 100 psig		Use With Air Compressor Size (hp)
	60 Hz	50 HZ		60 Hz	50 Hz		60 Hz	50 Hz		60 Hz	50 Hz	
SBR/HT20	23	20	5	22	18	5	20	17	5	18	15	3
SBR/HT25	29	24	7.5	27	23	7.5	25	21	5	23	19	5
SBR/HT35	41	31	10	38	29	10	35	27	7.5	32	24	7.5
SBR/HT50	58	58	15	54	54	15	50	50	10	45	45	10
SBR/HT75	88	71	20	81	66	20	75	61	15	68	55	15

(1) Capacity @ 180°F, *82° C* inlet temperature, 160°F, *71° C* inlet pressure dew point, 95°F, *35° C* ambient temperature, 50°F, *10° C* outlet pressure dew point, and less than 5 psi, *0.35 bar* pressure drop.

Capacity for flows based on 100°F, 38°C inlet (for typical applications where an aftercooler is installed upstream)

Model Number	Flow Capacity scfm (2) @ 175 psig		Use With Air Compressor Size (hp)	Flow Capacity scfm (2) @150 psig		Use With Air Compressor Size (hp)	Flow Capacity scfm (2) @ 125 psig		Use With Air Compressor Size (hp)	Flow Capacity scfm (2) @ 100 psig		Use With Air Compressor Size (hp)
	60 HZ	50 HZ		60 Hz	50 Hz		60 Hz	50 Hz		60 Hz	50 Hz	
SBR/HT20	32	27	7.5	30	25	7.5	28	23	5	25	21	5
SBR/HT25	40	33	10	37	31	10	34	29	7.5	31	26	7.5
SBR/HT35	55	43	15	51	40	15	47	37	10	43	33	10
SBR/HT50	78	78	20	73	73	20	67	67	15	61	61	15
SBR/HT75	118	96	25	110	90	25	102	83	20	92	75	20

(2) Capacity @ 100°F, *38° C* inlet temperature, 100°F, *38° C* inlet pressure dew point, 100°F, *38° C* ambient temperature, 50°F, *10° C* outlet pressure dew point, and less than 10 psi, *0.7 bar* pressure drop.

Specifications

Model Number	Power Requirements 115V/1ph/60Hz		230V/1ph/50Hz		Maximum Working Pressure	Maximum Inlet Temperature	Ambient Temperature Range	In/Out Connections NPT or BSP	Dimensions in [*mm*]			Wt lb [*kg*]
	Amps	kW	Amps	kW					H	W	D	
SBR/HT20	6.9	0.7	2.9	0.6	175 psig *12.3 kg/cm²*	180°F *82° C*	35-110°F *2-43° C*	1/2"	28 [*718*]	10 [*257*]	13 [*327*]	79 [*35.8*]
SBR/HT25	6.9	0.7	2.9	0.6				1/2"	28 [*718*]	10 [*257*]	13 [*327*]	80 [*36.3*]
SBR/HT35	6.9	0.7	2.9	0.6				1/2"	28 [*718*]	10 [*257*]	13 [*327*]	81 [*36.7*]
SBR/HT50	13.4	1.0	5.5	1.1				3/4"	37 [*933*]	17 [*429*]	17 [*429*]	150 [*68.0*]
SBR/HT75	13.4	1.4	5.5	1.1				3/4"	37 [*933*]	17 [*429*]	17 [*429*]	155 [*70.3*]

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