



# Heat of Compression

100 to 10,000 cfm



Progressive Performance



## Working Principle

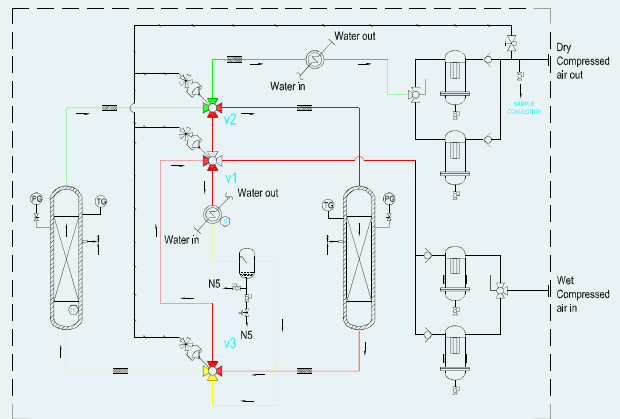
Like all desiccant dryers the principle of drying is adsorption. But unlike desiccant dryer HOC dryer makes use of heat generated during compression of air to regenerate the saturated alumina thus consumes less power in terms of electrical energy and loss of compressed air.

Regeneration of saturated desiccant is accomplished by two different, consequent process called heating and cooling of desiccant. Heating is accomplished by the hot air coming out of air compressor discharge. Cooling is accomplished by the dry air coming out of drying tower.

Cool Dry air turns to hot dry air once it passes through the regeneration tower. This hot dry air is cooled to ambient temperature by Regeneration cooler.

Process-Generation of dry air needs temperature of air to be not more than ambient temperature. This temperature reduction is accomplished by after cooler (intercooler) and bulk moisture is separated in Moisture separator. Regeneration cooler and after cooler can either be water cooled or air cooled.

Thus the Drying and regeneration is carried out automatically by Pneumatic actuator driven valves.



## Technical Data

MODEL	Capacity, cfm	Width, mm	Depth, mm	Height, mm	End Connection
SH 010 BM	100	1600	1600	2200	1" BSP F
SH 015 BM	150	1600	1800	2200	1-1/2" BSP F
SH 020 BM	200	1700	1800	2400	1-1/2" BSP F
SH 025 BM	250	1700	2000	2600	2" BSP F
SH 035 BM	350	1700	2000	2600	2" BSP F
SH 050 BM	500	1700	2400	2700	2" BSP F
SH 060 BM	600	1800	2500	2700	65 NB
SH 075 BM	750	1800	2500	2700	80 NB
SH 100 BM	1000	2000	2600	2900	100 NB
SH 125 BM	1250	2000	2600	3000	100 NB
SH 150 BM	1500	2000	2750	3000	100 NB
SH 200 BM	2000	2300	3150	3200	150 NB
SH 250 BM	2500	2750	3400	2850	150 NB
SH 300 BM	3000	2750	3400	3000	150 NB

Rated condition:

1. Inlet air temperature, max : 140 – 160 °C
2. Inlet air pressure : 7 bar g
3. Inlet water temperature, max : 32°C
4. Pressure drop : 0.5 bar g

## Other Product Ranges



The data in this brochure are not binding, due to continuous product improvement, SUMMITS reserves the right to make changes without prior notice. For further information, contact factory

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