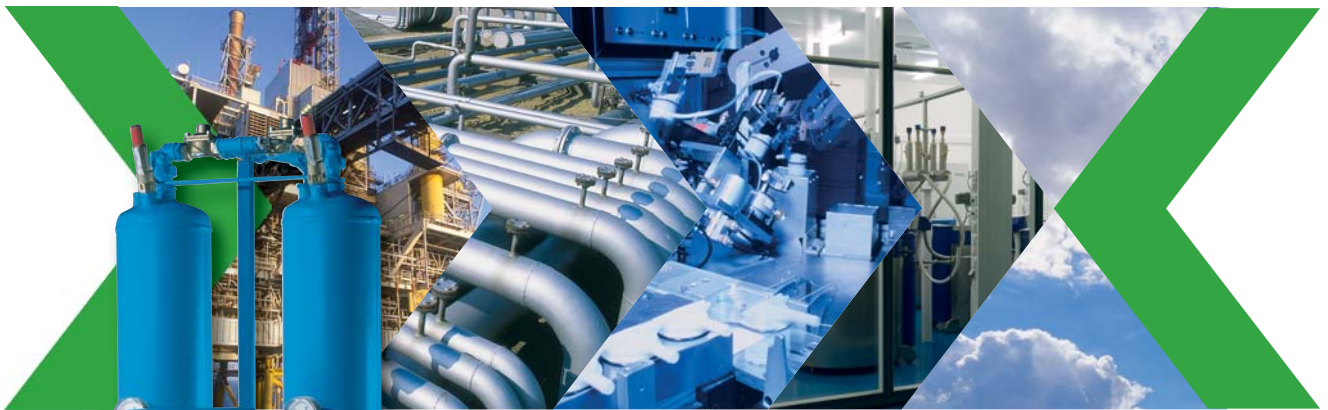


Adsorption dryers

HMW



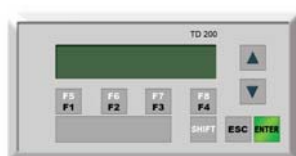
Internally heated adsorption dryers, HANKISON HMW Series

HMW dryers feature electrical heating elements that are integrated directly into the drying bed and heat the desiccant directly. A very small amount (approx. 2.5%) of the dried compressed air is used as regenerative air. The air transports the moisture from the dryer and subsequently cools the desiccant. During the switchover phase, the compressed air passes through both towers in parallel for around 20 minutes, which balances out any differences in temperature or dew point.

The optional Energy Management System results in significant energy savings, particularly during varying operating conditions. The HMW Series covers a performance range from 245 to 4,280 m³/h and enables a dew point of -40 °C. (Details according to ISO 7183)

EMS energy management for heat regenerated adsorption dryers

Adsorption dryers need to cope with all possible operating conditions and are therefore the dryers of choice for the least favourable situations. According to ISO 7183, the standard operation conditions are: operating temperature 35 °C; operating overpressure 7 bar.



Higher temperatures or lower pressures require higher performance in terms of both adsorption and regeneration. Since the maximum level of adsorption is not required during periods of reduced operation (at night, at weekends or in winter conditions), the level of regeneration performance required should be continually adjusted in line with changing conditions.



| Model | Capacity [m ³ /h] | Max. operating pressure [bar g] | Max. operating pressure [bar g] | Voltage | Weight [kg] | Dimensions [LxBxHmm] | Connection [R/DN] | Prefilter | Dustfilter |
|-----------------|------------------------------|---------------------------------|---------------------------------|-------------|-------------|----------------------|-------------------|-----------|------------|
| HMW 74 | 245 | 4 | 10 | 400V/3/50Hz | ■ | 2170 x 670 x 450 | 1 " | HF 90 | DF 90 |
| HMW 120 | 400 | 4 | 10 | 400V/3/50Hz | ■ | 2280 x 855 x 500 | 1½" | HF 135 | DF 135 |
| HMW 196 | 653 | 4 | 10 | 400V/3/50Hz | ■ | 2620 x 905 x 550 | 1½" | HF 216 | DF 216 |
| HMW 236 | 785 | 4 | 10 | 400V/3/50Hz | ■ | 2750 x 1035 x 600 | 2" | HF 285 | DF 285 |
| HMW 308 | 1026 | 4 | 10 | 400V/3/50Hz | ■ | 2750 x 1085 x 650 | 2" | HF 405 | DF 405 |
| HMW 385 | 1282 | 4 | 10 | 400V/3/50Hz | ■ | 3050 x 1475 x 1060 | 80 | HF 540 | DF 540 |
| HMW 575 | 1916 | 4 | 10 | 400V/3/50Hz | ■ | 3050 x 1600 x 1110 | 80 | HF5-56 | HF56-HTA |
| HMW 675 | 2250 | 4 | 10 | 400V/3/50Hz | ■ | 3050 x 1600 x 1160 | 80 | HF5-60 | HF60-HTA |
| HMW 801 | 2670 | 4 | 10 | 400V/3/50Hz | ■ | 3175 x 1790 x 1185 | 100 | HF5-60 | HF60-HTA |
| HMW 1077 | 3590 | 4 | 10 | 400V/3/50Hz | ■ | 3175 x 1790 x 1235 | 100 | HF5-64 | HF64-HTA |
| HMW 1284 | 4280 | 4 | 10 | 400V/3/50Hz | ■ | 3175 x 1790 x 1260 | 100 | HF5-64 | HF64-HTA |

Correction factor for varying operating pressures in bar.g (F1)

| Bar.g | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|------------------------|------|------|------|------|------|------|------|--|----|----|----|----|----|
| Correction factor (F1) | 0.63 | 0.75 | 0.88 | 1.00 | 1.12 | 1.15 | 1.37 | Please ask your dealer for version information | | | | | |

Correction factor for varying inlet temperatures in °C (F2)

| °C | +5 | +30 | +35 | +40 | +45 | +50 |
|------------------------|------|------|------|------|------|------|
| Correction factor (F2) | 1.00 | 1.00 | 1.00 | 0.60 | 0.38 | 0.25 |

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