

Downstream Equipments

## HBP Series

HBP 850 / 1000 / 1250 / 1500 / 1800 / 2200 / 2700 / 3200 / 3600 / 4400 / 5000 / 6300 / 7200 / 8800 / 10800

**hertz**<sup>®</sup>  
KOMPRESSOREN



### Principle of Operations

A centrifugal blower and high efficiency heater eliminates the use of valuable compressed air to be used for desiccant regeneration.

The completely automatic drying system uses blower to pull ambient Air and pass it through the heater. This hot Air stream flows opposite to drying flow direction. Hot Air above 200 °C regenerates the moisture inside desiccant bed and strips it completely of all moisture. The advanced control system monitors the dew point and adjusts the heating / regeneration accordingly thereby providing valuable energy savings.

The heater circuit is completely insulated ensuring maximum heating efficiency.

- Dew point monitoring and control
- Computer Control
- Display Status
- Display Alarms
- Display Pressure

- Remote Start / Stop
- Low Pressure Alarm
- Minimum Pressure monitoring valve
- High pressure switches and alarms
- Externally heated or heatless dryer functions integrated to the HBP dryer

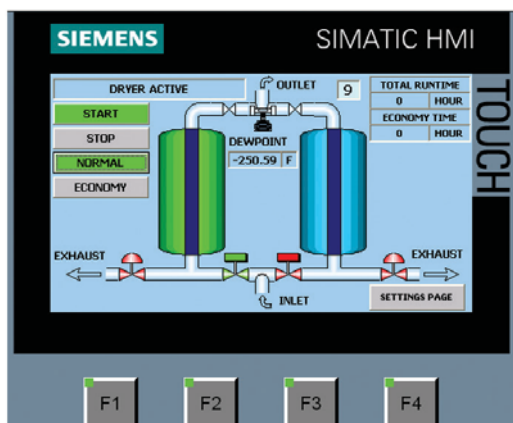
### Normal Working Conditions

- 7 bar Inlet Pressure 35 °C Inlet Temperature
- 100 % Inlet Air rel. humidity
- Nominal pressure dew point is 40 °C / Maximum working pressure 12 bar(g)

### PLC is standard

HBP Blower Purge Dryers has a very reliable electronic controller makes sure that the dryer operates perfectly all through the servicelife of the dryer. Touch screen PLC is capable of showing the cycles as well as the valves which operate on real time. It also shows the dew point (if applicable).

User friendly multi-languag PLC helps the end users understand the operation system any field issues easily.



### Activated Alumina

Hertz uses a mixture of adsorption media in its heatless range of desiccant dryers to achieve consistent dewpoint. Activated Alumina, Molecular Sieve and Silica Gel are used in varying ratios depending on the application.



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## SPECIFICATIONS

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Type	Connection Size	Air Flow (m <sup>3</sup> /h)	Pressure Drop (mbar)	Average Power (kW)	Activated Alumina (Kg)
HBP 850	2"	850	≤130	6,5	264
HBP 1000	2"	1000	≤130	7,5	364
HBP 1250	DN80	1250	≤130	8	407
HBP 1500	DN80	1500	≤130	10	443
HBP 1800	DN80	1800	≤130	12	500
HBP 2200	DN80	2200	≤130	17	690
HBP 2700	DN80	2700	≤130	19	714
HBP 3200	DN100	3200	≤130	20	790
HBP 3600	DN100	3600	≤130	26	816
HBP4400	DN100	4400	≤130	28	1100
HBP 5000	DN125	5000	≤130	33	1320
HBP 6300	DN150	6300	≤130	35	1575
HBP 7200	DN150	7200	≤130	40	1800
HBP 8800	DN150	8800	≤130	56	2200
HBP 10800	DN200	10800	≤130	75	2700

### X PRE FILTER

Efficiency rating:  
1 Micron particle  
removal & 0.5mg/m<sup>3</sup>  
oil removal

### Y PRE FILTER

Efficiency rating:  
0.01 Micron particle  
removal & 0.01mg/m<sup>3</sup>  
oil removal

### P PRE FILTER

Efficiency rating:  
5 Micron particle  
removal (removes  
desiccant particles after  
the dryer)



For special requirements  
please contact Hertz technical  
department

Inlet temperature	35 °C
Working pressure	7 bar
Maximum working pressure	12 bar
Maximum working temperature	50 °C
Maximum inlet temperature	50 °C
Pressure Dew Point	-40 °C

The dryers are designed according to Pneurop, conditions as per ISO7183

Bar g	4.5	5	6	7	8	9	10
	0.69	0.75	0.88	1	1.08	1.12	1.20
Inlet Temp. °C	20	25	30	35	40	45	50
	1	1	1	1	0.80	0.73	0.59

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