



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

Dalgakıran DBP Series Heated Desiccant Air Dryers provide -40 °C pressure dew point. A centrifugal blower and high efficiency heater eliminates the use of valuable compressed air to be used for desiccant regeneration. Pre-filters and after-filters are supplied along with Dalgakıran Heated Air Dryers to keep the air stream clean and maintain the integrity of the desiccant medium. A very reliable electronic controller makes sure that the dryer operates perfectly all through the service life of the dryer.

#### >PRINCIPLE OF OPERATION

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 there by 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 DBP dryer

## > NORMAL WORKING CONDITIONS

- 7 bar Inlet Pressure
- 35 °C Inlet Temperature
- 100 % Inlet Air rel. humudity
- Nominal pressure dew point is
- Maximum working pressure 10 bar(g)

#### > PLC IS STANDARD

DBP Blower Purge Dryers has a very reliable electronic controller that 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-langual PLC helps the end users understand the operation system any field issues easily.



### > ACTIVATED ALUMINA

Dalgakıran 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.

# TECHNICAL DATA

ТҮРЕ	CONNECTION SIZE	AIR FLOW	PRESSURE DROP	AVERAGE POWER	VOLTAGE kg	
		(m³/h)	(mbar)	(kW)		
DBP 850	2"	850	≤ 130	6,5	264	
DBP 1000	2"	1000	≤ 130	7,5	364	
DBP 1250	DN80	1250	≤ 130	8	407	
DBP 1500	DN80	1500	≤ 130	10	443	
DBP 1800	DN80	1800	≤ 130	12	500	
DBP 2200	DN80	2200	≤ 130	17	690	
DBP 2700	DN80	2700	≤ 130	19	714	
DBP 3200	DN100	3200	≤ 130	20	790	
DBP 3600	DN100	3600	≤ 130	26	816	
DBP 4400	DN100	4400	≤ 130	28	1100	
DBP 5000	DN125	5000	≤ 130	33	1320	
DBP 6300	DN150	6300	≤ 130	35	1575	
DBP 7200	DN150	7200	≤ 130	40	1800	
DBP 8800	DN150	8800	≤ 130	56	2200	
DBP 10800	DN200	10800	≤ 130	75	2700	

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

X PRE FILTER	Y PRE FILTER	P AFTER FILTER
Efficiency rating:  1 Micron particle removal & 0.5mg/m3 oil removal	Efficiency rating: 0,01 Micron particle removal & 0.1mg/m3 oil removal	Efficiency rating: 5 Micron particle removal (removes desiccant particles after the dryer)

For special
requirements please
contact
Dalgakıran technical
department

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
Ī	Inlet Temp. °C	20	25	30	35	40	45	50
		1	1	1	1	0,80	0,73	0,59

