

Split Flow - No Purge Loss Compressed Air Dryer



The wet Air / Gas stream is split at the air dryer inlet through a differential distributor valve. Part of this air / gas stream is passed through an external heater and heated to a regeneration temperature of 160-180°C, then it is fed to the Adsorber desiccant tower A containing Silica gel or activated Alumina / Molecular Sieves under regeneration thus removing out the moisture from the desiccant bed.

A water cooled / air cooled aftercooler condenses the desorbed moisture which is discharged regularly through the automatic drain trap .after condensation This Air/ Gas stream joins the main incoming air stream and goes for drying to the other tower B under drying.

Normally a Cycle time of 8+8 hrs is utilized to complete one cycle of operation. After each operation the changeover is effected automatically.

This type of dryer provides an outlet Dew Point of -40 deg C. The Air dryer can be supplied with standard accessarie like simplex / duplex Prefilters / Afterfilters, Flowmeters, dew point meters etc. The system is fully automatic / semi automatic , with Timer / PLC controls with feedback to/ from main DCS.

APPLICATIONS --

- Instrument air dryers for power plants Refineries & Petrochemicals ,chemical & fertilizer plantsetc.
- CNG Compressed Natural Gas Drying & conditioning plants , Gas Drayers.
- Hydrogen Gas Drier for generator Cooling Application.

SPECIFICATIONS FOR SPLIT FLOW NO PURGE LOSS TYPE AIR DRYER

MODEL NO.	CAPACITY		PIPE LINE SIZE mm	POWER CONSUMPTION KWH/DAY	COOLING WATER REQ.T. LPM	APROX. OVERALL DIMENSIONS		
	M³/ HR	CFM				LENGHT mm	WIDTH mm	HEIGHT mm
NPL-01	163.0	100	25	43.2	14	1600	1400	1800
NPL-02	244.5	150	25	64.8	21	1800	1500	2000
NPL-03	326.0	200	25	86.4	28	1800	1500	2000
NPL-04	489.0	300	40	129.6	42	2000	1500	2200

NPL-05	652.0	400	40	172.8	56	2000	1500	2200
NPL-06	815.0	500	50	216.0	70	2000	1800	2200
NPL-07	978.0	600	50	259.2	84	2200	1800	2400
NPL-08	1222.0	750	65	324.0	105	2400	1800	2400
NPL-09	1630.0	1000	65	432.0	140	2500	2000	2600
NPL-10	2037.0	1250	80	518.0	175	2500	2000	2800
NPL-11	2445.0	1500	80	648.0	210	2500	2000	3000
NPL-12	3260.0	2000	100	842.0	280	3000	2000	3000
NPL-13	4075.0	2500	100	1030.0	350	3000	2000	3000

The above air dryer capacities are rated at an inlet temp. of 40°C., 7kg/ Cm2g Pr. (0.7 Mpa) and at an outlet dew point of (-) 40°C. at Atm. Pressure, Supply Voltage of 415 V-3 PH- 50 HZ or 220V-1PH-50 Hz. Above data is only for estimation and can be changed without notice. For special systems and higher capacities please [contact us](#).

For cost comparison of operating of a Heat of Compression Type Air Dryers Vs. Heated Type/Heatless/Refrigerated Type Air Dryers please [clickhere](#).

Contact For Dryers

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