

Canadian Puregas Equipment Limited

AIR DRYER TERMINOLOGY

DESICCANT - a drying agent used to adsorb moisture.

REGENERATED - desiccant cleaned of moisture and reusable.

HEATLESS - dry air regeneration without heat.

HEAT REACTIVATED - the use of heat to regenerate desiccant.

OILLESS COMPRESSOR - Teflon components requiring no lubrication

MEMBRANE DRYER - a permeable hollow membrane that separates moisture from compressed air.

NOTE: DESICCANT AND MEMBRANES CANNOT BE EXPOSED TO OIL CONTAMINATION

STANDARD AIR DELIVERY - the air dryer SCFD capacity at a normal working load.

EMERGENCY AIR DELIVERY - maximum SCFD capacity of dryer .

RELATIVE HUMIDITY - percentage of maximum humidity at a measured temperature.

DEW POINT - a temperature level required for condensation to occur as frost or condensate.

PSI - pounds per square inch (as read on gauge)

PSIA - pounds per square inch absolute (pressure reading plus atmospheric pressure)

ATMOSPHERIC PRESSURE - 14.7 PSIA (0 PSI) at mean sea level

SCFD - standard cubic feet per day.

SCF - one cubic foot of air at 14.7 absolute (0 PSI)

CFD - cubic feet per day at a given pressure

TO CONVERT CFD TO SCFD - $\frac{\text{ABSOLUTE}}{\text{ATMOSPHERIC}} \times \text{CFD} = \text{SCFD}$

EXAMPLE: 120 CFD MEASURED @ 13 PSI - $\frac{13 + 14.7}{14.7} \times 120 = 226$ SCFD