4640 Air Separation Membrane

OVERVIEW

Air Liquide Advanced Separations MEDAL ***4640*** provides users with complete flexibility in nitrogen production. From energy applications to maritime projects, the ***4640*** delivers results. Its durability and optimized geometry lend well to maximizing N_2 flow within close quarters for projects focused on footprint minimization. The key to this modules success is a balance of flux and selectivity characteristics, ensuring that both unit count and feed air are minimized. For any high purity and medium flow projects, the ***4640*** is the cost-effective solution. This module provides an available option to supply the bare bundle separately from the housing shell.

SHELL PHOTO

OPERATING CHARACTERISTICS

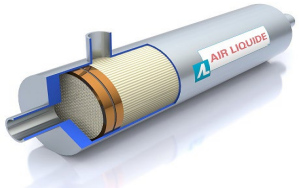
MAXIMUM OPERATING TEMPERATURE	65°C (149°F)
MAXIMUM OPERATING PRESSURE (SHELL)	19.3 barg (280 psig)
MAXIMUM OPERATING PRESSURE (BUNDLE)	16.1 barg (220 psig)
MAXIMUM FEED AIR OIL CONTENT	< 5 µg/Nm³
NITROGEN MOISTURE CONTENT	< -70°C (-95°F) Dew Point

PHYSICAL CHARACTERISTICS

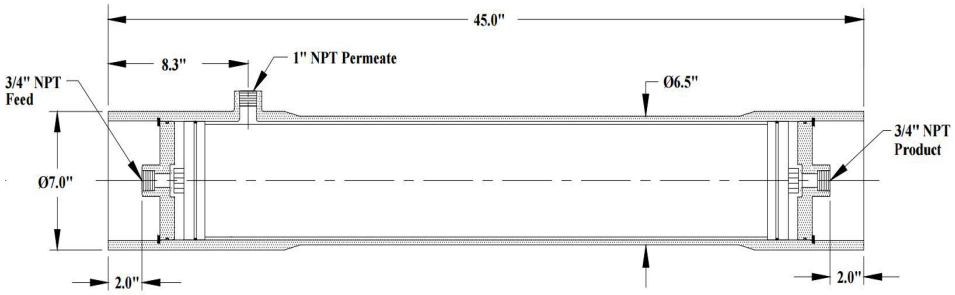
WEIGHT (MODULE ONLY)
6.8 kgs (15 lbs)

WEIGHT (MODULE AND SHELL)
18.1 kgs (40 lbs)

SHELL MATERIAL
Fiberglass Reinforced Plastic (FRP)



DIMENSIONS



4640 NEA Flow Rate (Nm³/hr) / Feed Air Flow Rate (Nm³/hr)

PRESSURE (psig) \ PURITY (%)	95%	96%	97%	98%	99%	99.5%	99.9%
350	145 / 268	122 / 243	101 / 219	79 / 195	55 / 164	40 / 146	21 / 123
300	122 / 227	103 / 206	84 / 186	66 / 165	46 / 140	33 / 124	18 / 105
250	98 / 185	83 / 168	68 / 152	54 / 136	37 / 115	27 / 102	14 / 87
200	75 / 144	64 / 131	52 / 119	41 / 106	29 / 90	21 / 81	11 / 69
150	53 / 103	45 / 94	37 / 86	29 / 77	20 / 66	15 / 59	8 / 51

**figures are based on average standard test conditions*

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