OVERVIEW

Air Liquide Advanced Separations (ALaS) offers two small module configurations: **4241** and **4121**. These units are predominantly incorporated into laboratory generators, food and beverage systems, nitrox applications, and military equipment. The models are operationally similar but differ with respect to geometry and associated N_2 output. By manufacturing the modules in a skeining process, ALaS capitalizes on the available efficiencies and module longevity associated with this method. For small-flow applications, the **4241** and **4121** provide users an effective and reliable solution within an efficient, lightweight design.

OPERATING CHARACTERISTICS

MAXIMUM OPERATING TEMPERATURE

MAXIMUM OPERATING PRESSURE MAXIMUM FEED AIR OIL CONTENT

NITROGEN MOISTURE CONTENT

60°C (140°F)

15.2 barg (220 psig)

 $0 \mu g/Nm^3$

< -70°C (-95°F) Dew Point

PERFORMANCE DATA

Temp 40oC		Purity (%)						
		95	96	97	98	99	99.5	99.9
		4241 Nitrogen Flow (Nm3/hr) / Feed air Flow (Nm3/hr)						
Pressure (Barg)	5	3.7/8.2	3.1/7.6	2.6/7	2/6.4	1.4/5.6	1/5.1	0.6/4.5
	7	6/12.4	5/11.5	4.1/10.5	3.3/9.5	2.3/8.2	1.6/7.5	0.9/6.5
	9	8.3/16.9	7/15.5	5.8/14.1	4.6/12.7	3.1/10.9	2.3/9.9	1.2/8.5
	11	10.8/21.4	9.1/19.5	7.5/17.8	5.9/16	4/13.7	2.9/12.3	1.5/10.5
	13	13.3/25.9	11.2/23.7	9.2/21.5	7.2/19.2	5/16.4	3.6/14.7	1.9/12.6
	15	15.9/30.5	13.4/27.8	11/25.2	8.6/22.5	5.9/19.1	4.3/17.1	2.2/14.6
nss		4121 Nitrogen Flow (Nm3/hr) / Feed air Flow (Nm3/hr)						
(73)								
Pre	5	1/2.1	0.8/1.9	0.6/1.7	0.5/1.5	0.3/1.3	0.2/1.2	0.1/1
Pre	5 7	1/2.1 1.5/3.1	0.8/1.9 1.3/2.8	0.6/1.7 1/2.5	0.5/1.5 0.8/2.3	0.3/1.3 0.5/1.9	0.2/1.2 0.4/1.7	0.1/1 0.2/1.5
Pre	1200					.50		
Pre	7	1.5/3.1	1.3/2.8	1/2.5	0.8/2.3	0.5/1.9	0.4/1.7	0.2/1.5
Pre	7	1.5/3.1 2.1/4.2	1.3/2.8 1.8/3.8	1/2.5 1.4/3.4	0.8/2.3 1.1/3	0.5/1.9 0.7/2.5	0.4/1.7 0.5/2.3	0.2/1.5 0.2/1.9
Pre	7 9 11	1.5/3.1 2.1/4.2 2.7/5.3	1.3/2.8 1.8/3.8 2.3/4.8	1/2.5 1.4/3.4 1.8/4.3	0.8/2.3 1.1/3 1.4/3.8	0.5/1.9 0.7/2.5 0.9/3.2	0.4/1.7 0.5/2.3 0.6/2.8	0.2/1.5 0.2/1.9 0.3/2.3

All values are based on mid aged condition (10,000 to 15,000 operating hours)

4241 MODULE



DIAMETER

2.5 inches

TOTAL LENGTH

39 inches

WEIGHT

2.7 kg (6 lbs)

VESSEL MATERIAL Aluminum 6061-T6

4121 MODULE



DIAMETER

1.5 inches

TOTAL LENGTH

24 inches

WEIGHT

1.1 kg (2.5 lbs)

VESSEL MATERIAL

Aluminum 6061-T6

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