

Instrument & Operating Air System

Ref: Attached P&ID

General

Reliable instrument air is required during all modes of operation. Normally the external air system is provided by the purchaser, but the supply system can be offered as an OPTION.

Consumption

Instrument air consumption at different stages¹:

	Start and Operation of GT Nm ³ /h (std ft ³ /h)	Stop of GT up to +30 min. Nm ³ /h (std ft ³ /h)
Fuel Application		
Single gas fuel	1,5 (53)	1,5 (53)
Dual fuel / Liquid	1,5 (53)	83 (2931)

¹ If a pulse clean filter is used the consumption will be increased with 44 Nm³/h /1554 std ft³/h normally during 15 to 30 minutes intermittent pulse cleaning or continuous pulse cleaning in case of extreme environmental conditions.

Data

Required Pressure: (with PCAIF)	7.5 ±0.5 bar(g) / 109 ±7.25 psi(g)
Minimum Pressure for Operation: (with PCAIF)	6.0 bar(g) / 87 psi(g)
Required Pressure: (without PCAIF)	6.0 ±0.5 bar(g) / 87 ±7.25 psi(g)
Minimum Pressure for Operation: (without PCAIF)	5.5 bar(g) / 80 psi(g)
Dew point	-20°C / -36°F below min ambient temp
Maximum particle size	1 µm / 0.04 mils
Maximum oil content	0,1 mg / Nm ³ / 6.25 x 10e-9 lb/ft
Maximum temperature	60°C / 140°F
Normal consumption during operation:	< 1,5 Nm ³ /h / 53 std ft ³ /h
Max. Consumption Single liquid fuel and Dual fuel:	81 Nm ³ /h 2860 std ft ³ /h (for 30 minutes of clean blowing phase and cooling manifolds during standstill)
Compressor washing (off-line):	13 Nm ³ /h /459 std ft ³ /h (for 30 seconds of nozzle and pipes clean blowing)
PCAIF consumption:	Add 44 Nm ³ /h /1554 std ft ³ /h

Note: PCAIF = Pulse Clean Air Intake Filter.