

NITROGEN GENERATOR SELECTION TOOL

INDUSTRIAL AIR
NGP8+ - 360+

Atlas Copco

Parameters	
Units	metric
Compressor type	fixed speed

Conditions		
Inlet pressure	[barg]	10,0
Inlet temperature	[°C]	25
Ambient temperature	[°C]	20

Nitrogen output		
Nitrogen flow	[Nm³/h]*	110
Nitrogen purity	[%]	99,999
Nitrogen purity	[ppm]	10

Performance data										
Type	Nominal performance at specified conditions				Effective performance at specified nitrogen output level					Sizing
Model	Nitrogen flow**	Air ratio	Air consumption	N ₂ purity	Nitrogen flow	Air ratio	Air consumption	N ₂ purity	Outlet pressure	
	[Nm³/h]*		[Nm³/h]*		[Nm³/h]*		[Nm³/h]*		[barg]	
NGP300+ PPM	105,3	6,1	641	99,9990%	110	5,9	651	99,9985%	9,5	Undersized
NGP360+ PPM	127,8	6,1	778	99,9990%	110	6,7	736	99,9995%	9,5	Recommended
#CCЫЛКА!	#CCЫЛКА!	#CCЫЛКА!	#CCЫЛКА!	99,9990%	110	#CCЫЛКА!	#CCЫЛКА!	#CCЫЛКА!	#CCЫЛКА!	Oversized

Recommended equipment						
Min. Compressor FAD	Fridge dryer	UD+ size	QDT size	Air receiver	N ₂ receiver	PDp+ size
[Nm³/h]*				[L]	[L]	
684	ID	180+	150	4000	4000	70+
773	ID	180+	150	5000	5000	70+
#CCЫЛКА!	ID	#CCЫЛКА!	#CCЫЛКА!	#CCЫЛКА!	#CCЫЛКА!	70+

* Nm³/h: reference at 20°C and 1000mbar

** Maximum capacity of the generator at given pressure and temperatures

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Parameters	
Units	metric
Compressor type	fixed speed

Conditions		
Inlet pressure	[barg]	10,0
Inlet temperature	[°C]	35
Ambient temperature	[°C]	30

Nitrogen output		
Nitrogen flow	[Nm³/h]*	110
Nitrogen purity	[%]	99,999
Nitrogen purity	[ppm]	10

Performance data										
Type	Nominal performance at specified conditions				Effective performance at specified nitrogen output level					Sizing
Model	Nitrogen flow**	Air ratio	Air consumption	N ₂ purity	Nitrogen flow	Air ratio	Air consumption	N ₂ purity	Outlet pressure	
	[Nm³/h]*		[Nm³/h]*		[Nm³/h]*		[Nm³/h]*		[barg]	
NGP300+ PPM	96,1	6,8	652	99,9990%	110	6,2	685	99,9980%	9,5	Undersized
NGP360+ PPM	116,7	6,8	792	99,9990%	110	7,0	775	99,9995%	9,5	Recommended
#CCЫЛКА!	#CCЫЛКА!	#CCЫЛКА!	#CCЫЛКА!	99,9990%	110	#CCЫЛКА!	#CCЫЛКА!	#CCЫЛКА!	#CCЫЛКА!	Oversized

Recommended equipment						
Min. Compressor FAD	Fridge dryer***	UD+ size	QDT size	Air receiver	N ₂ receiver	PDp+ size
[Nm³/h]*				[L]	[L]	
719	FD	180+	245	4000	4000	70+
814	FD	220+	245	5000	5000	70+
#CCЫЛКА!	FD	#CCЫЛКА!	#CCЫЛКА!	#CCЫЛКА!	#CCЫЛКА!	70+

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Parameters	
Units	metric
Compressor type	fixed speed

Conditions		
Inlet pressure	[barg]	10,0
Inlet temperature	[°C]	15
Ambient temperature	[°C]	10

Nitrogen output		
Nitrogen flow	[Nm³/h]*	110
Nitrogen purity	[%]	99,999
Nitrogen purity	[ppm]	10

Performance data										
Type	Nominal performance at specified conditions				Effective performance at specified nitrogen output level					Sizing
Model	Nitrogen flow**	Air ratio	Air consumption	N ₂ purity	Nitrogen flow	Air ratio	Air consumption	N ₂ purity	Outlet pressure	
	[Nm³/h]*		[Nm³/h]*		[Nm³/h]*		[Nm³/h]*		[barg]	
NGP300+ PPM	109,3	5,8	635	99,9990%	110	5,8	636	99,9990%	9,5	Undersized
NGP360+ PPM	132,8	5,8	771	99,9990%	110	6,5	719	99,9995%	9,5	Recommended
#CCЫЛКА!	#CCЫЛКА!	#CCЫЛКА!	#CCЫЛКА!	99,9990%	110	#CCЫЛКА!	#CCЫЛКА!	#CCЫЛКА!	#CCЫЛКА!	Oversized

Recommended equipment						
Min. Compressor FAD	Fridge dryer	UD+ size	QDT size	Air receiver	N ₂ receiver	PDp+ size
[Nm³/h]*				[L]	[L]	
668	ID	180+	125	4000	4000	70+
755	ID	180+	125	5000	5000	70+
#CCЫЛКА!	ID	#CCЫЛКА!	#CCЫЛКА!	#CCЫЛКА!	#CCЫЛКА!	70+

* Nm³/h: reference at 20°C and 1000mbar

** Maximum capacity of the generator at given pressure and temperatures