

COMPRESSOR DATA SHEET

Rotary Screw Compressor

MODEL DATA - FOR COMPRESSED AIR			
1	Manufacturer: Chicago Pneumatic Compressor	Date: October 2009	
2	Model Number: CPG-380	# of Stages: Single	
	<input type="checkbox"/> Air-cooled <input checked="" type="checkbox"/> Water-cooled <input checked="" type="checkbox"/> Oil-injected <input type="checkbox"/> Oil-free		
3	Rated Capacity at Full Load Operating Pressure	1750	acfm ^{a,f}
4	Full Load Operating Pressure	100	psig ^b
5	Maximum Full Flow Operating Pressure	116	psig ^c
6	Drive Motor Nameplate Rating	375	hp
7	Drive Motor Nameplate Nominal Efficiency	94.5	percent
8	Fan Motor Nameplate Rating (if applicable)	2.3	hp
9	Fan Motor Nameplate Nominal Efficiency	79	percent
10	Total Package Input Power at Zero Flow	55.6	kW ^e
11	Total Package Input Power at Rated Capacity and Full Load Operating Pressure	292	kW ^d
12	Specific Package Input Power at Rated Capacity and Full Load Operating Pressure	16.7	kW/100 cfm ^g

NOTES:

- a. Measured at the discharge terminal point of the compressor package in accordance with the CAGI/PNEUROP PN2CPTC2 Test Code (Annex C to ISO 1217). ACFM is actual cubic feet per minute at inlet conditions.
- b. The operating pressure at which the Capacity (Item 3) and Electrical Consumption (Item 10) were measured for this data sheet.
- c. Maximum pressure attainable at full flow, usually the unload pressure setting for load/no load control or the maximum pressure attainable before capacity control begins. May require additional power.
- d. Total package input power at other than reported operating points will vary with control strategy.
- e. Tolerance is specified in the CAGI/PNEUROP PN2CPTC2 Test Code (Annex C to ISO 1217).
- f, g. Tolerance is specified in the CAGI/PNEUROP PN2CPTC2 Test Code (Annex C to ISO 1217) as follows:

Volume Flow Rate at Specified Conditions		Volume Flow Rate ^f	Specific Energy Consumption ^g
<u>m³ / min</u>	<u>ft³ / min</u>	%	%
Below 0.5	Below 15	+/- 7	+/- 8
0.5 to 1.5	15 to 50	+/- 6	+/- 7
1.5 to 15	50 to 500	+/- 5	+/- 6
Above 15	Above 500	+/- 4	+/- 5



This form was developed by the Compressed Air and Gas Institute for the use of its members.
CAGI has not independently verified the reported data.

COMPRESSOR DATA SHEET

Rotary Screw Compressor

MODEL DATA - FOR COMPRESSED AIR			
1	Manufacturer: Chicago Pneumatic Compressor	Date: October 2009	
2	Model Number: CPG-450	# of Stages: Single	
	<input type="checkbox"/> Air-cooled <input checked="" type="checkbox"/> Water-cooled <input checked="" type="checkbox"/> Oil-injected <input type="checkbox"/> Oil-free		
3	Rated Capacity at Full Load Operating Pressure	1954	acfm ^{a,f}
4	Full Load Operating Pressure	100	psig ^b
5	Maximum Full Flow Operating Pressure	116	psig ^c
6	Drive Motor Nameplate Rating	422	hp
7	Drive Motor Nameplate Nominal Efficiency	94.5	percent
8	Fan Motor Nameplate Rating (if applicable)	2.3	hp
9	Fan Motor Nameplate Nominal Efficiency	79	percent
10	Total Package Input Power at Zero Flow	62.6	kW ^e
11	Total Package Input Power at Rated Capacity and Full Load Operating Pressure	326	kW ^d
12	Specific Package Input Power at Rated Capacity and Full Load Operating Pressure	16.7	kW/100 cfm ^g

NOTES:

- a. Measured at the discharge terminal point of the compressor package in accordance with the CAGI/PNEUROP PN2CPTC2 Test Code (Annex C to ISO 1217). ACFM is actual cubic feet per minute at inlet conditions.
- b. The operating pressure at which the Capacity (Item 3) and Electrical Consumption (Item 10) were measured for this data sheet.
- c. Maximum pressure attainable at full flow, usually the unload pressure setting for load/no load control or the maximum pressure attainable before capacity control begins. May require additional power.
- d. Total package input power at other than reported operating points will vary with control strategy.
- e. Tolerance is specified in the CAGI/PNEUROP PN2CPTC2 Test Code (Annex C to ISO 1217).
- f, g. Tolerance is specified in the CAGI/PNEUROP PN2CPTC2 Test Code (Annex C to ISO 1217) as follows:

Volume Flow Rate at Specified Conditions		Volume Flow Rate ^f	Specific Energy Consumption ^g
<u>m³ / min</u>	<u>ft³ / min</u>	%	%
Below 0.5	Below 15	+/- 7	+/- 8
0.5 to 1.5	15 to 50	+/- 6	+/- 7
1.5 to 15	50 to 500	+/- 5	+/- 6
Above 15	Above 500	+/- 4	+/- 5



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COMPRESSOR DATA SHEET

Rotary Screw Compressor

MODEL DATA - FOR COMPRESSED AIR			
1	Manufacturer: Chicago Pneumatic Compressor	Date: October 2009	
2	Model Number: CPG-480	# of Stages: Single	
	<input type="checkbox"/> Air-cooled <input checked="" type="checkbox"/> Water-cooled <input checked="" type="checkbox"/> Oil-injected <input type="checkbox"/> Oil-free		
		VALUE	UNIT
3	Rated Capacity at Full Load Operating Pressure	1947	acfm ^{a,f}
4	Full Load Operating Pressure	125	psig ^b
5	Maximum Full Flow Operating Pressure	145	psig ^c
6	Drive Motor Nameplate Rating	475	hp
7	Drive Motor Nameplate Nominal Efficiency	94.5	percent
8	Fan Motor Nameplate Rating (if applicable)	2.3	hp
9	Fan Motor Nameplate Nominal Efficiency	79	percent
10	Total Package Input Power at Zero Flow	69.2	kW ^e
11	Total Package Input Power at Rated Capacity and Full Load Operating Pressure	361	kW ^d
12	Specific Package Input Power at Rated Capacity and Full Load Operating Pressure	18.5	kW/100 cfm ^g

NOTES:

- a. Measured at the discharge terminal point of the compressor package in accordance with the CAGI/PNEUROP PN2CPTC2 Test Code (Annex C to ISO 1217). ACFM is actual cubic feet per minute at inlet conditions.
- b. The operating pressure at which the Capacity (Item 3) and Electrical Consumption (Item 10) were measured for this data sheet.
- c. Maximum pressure attainable at full flow, usually the unload pressure setting for load/no load control or the maximum pressure attainable before capacity control begins. May require additional power.
- d. Total package input power at other than reported operating points will vary with control strategy.
- e. Tolerance is specified in the CAGI/PNEUROP PN2CPTC2 Test Code (Annex C to ISO 1217).
- f, g. Tolerance is specified in the CAGI/PNEUROP PN2CPTC2 Test Code (Annex C to ISO 1217) as follows:

Volume Flow Rate at Specified Conditions		Volume Flow Rate ^f		Specific Energy Consumption ^g
<u>m³ / min</u>	<u>ft³ / min</u>	%	%	%
Below 0.5	Below 15	+/- 7	+/- 7	+/- 8
0.5 to 1.5	15 to 50	+/- 6	+/- 6	+/- 7
1.5 to 15	50 to 500	+/- 5	+/- 5	+/- 6
Above 15	Above 500	+/- 4	+/- 4	+/- 5



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