Chicago Pneumatic

COMPRESSOR DATA SHEET
Rotary Screw Compressor

MODEL DATA - FOR COMPRESSED AIR			
1	Manufacturer: **Chicago Pneumatic Compressor**	Date: **April 2011**	
2	Model Number: **QRS-20** ☒ Air-cooled ☐ Water-cooled	# of Stages: **Single**	
	☒ Oil-injected ☐ Oil-free	VALUE	UNIT
3	Rated Capacity at Full Load Operating Pressure	**85**	acfm[a,f]
4	Full Load Operating Pressure	**100**	psig[b]
5	Maximum Full Flow Operating Pressure	**107**	psig[c]
6	Drive Motor Nameplate Rating	**20**	hp
7	Drive Motor Nameplate Nominal Efficiency	**90.2**	percent
8	Fan Motor Nameplate Rating (if applicable)	**-**	hp
9	Fan Motor Nameplate Nominal Efficiency	**-**	percent
10	Total Package Input Power at Zero Flow	**3.2**	kW[e]
11	Total Package Input Power at Rated Capacity and Full Load Operating Pressure	**15.9**	kW[d]
12	Specific Package Input Power at Rated Capacity and Full Load Operating Pressure	**18.6**	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]
m^3 / min	ft^3 / min	%	%
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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COMPRESSED AIR CAGI AND GAS INSTITUTE®

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Chicago Pneumatic

COMPRESSOR DATA SHEET
Rotary Screw Compressor

MODEL DATA - FOR COMPRESSED AIR			
1	Manufacturer: **Chicago Pneumatic Compressor**	Date: **April 2011**	
2	Model Number: **QRS-20** ☒ Air-cooled ☐ Water-cooled	# of Stages: **Single**	
	☒ Oil-injected ☐ Oil-free	VALUE	UNIT
3	Rated Capacity at Full Load Operating Pressure	**80**	acfm[a,f]
4	Full Load Operating Pressure	**125**	psig[b]
5	Maximum Full Flow Operating Pressure	**132**	psig[c]
6	Drive Motor Nameplate Rating	**20**	hp
7	Drive Motor Nameplate Nominal Efficiency	**90.2**	percent
8	Fan Motor Nameplate Rating (if applicable)	**-**	hp
9	Fan Motor Nameplate Nominal Efficiency	**-**	percent
10	Total Package Input Power at Zero Flow	**3.2**	kW[e]
11	Total Package Input Power at Rated Capacity and Full Load Operating Pressure	**16.0**	kW[d]
12	Specific Package Input Power at Rated Capacity and Full Load Operating Pressure	**20.0**	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]
m^3 / min	ft^3 / min	%	%
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: **April 2011**	
2	Model Number: **QRS-20** ☒ Air-cooled ☐ Water-cooled	# of Stages: **Single**	
	☒ Oil-injected ☐ Oil-free	VALUE	UNIT
3	Rated Capacity at Full Load Operating Pressure	**71**	acfm[a,f]
4	Full Load Operating Pressure	**150**	psig[b]
5	Maximum Full Flow Operating Pressure	**157**	psig[c]
6	Drive Motor Nameplate Rating	**20**	hp
7	Drive Motor Nameplate Nominal Efficiency	**90.2**	percent
8	Fan Motor Nameplate Rating (if applicable)	**-**	hp
9	Fan Motor Nameplate Nominal Efficiency	**-**	percent
10	Total Package Input Power at Zero Flow	**3.2**	kW[e]
11	Total Package Input Power at Rated Capacity and Full Load Operating Pressure	**16.1**	kW[d]
12	Specific Package Input Power at Rated Capacity and Full Load Operating Pressure	**22.8**	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]
m^3 / min	ft^3 / min	%	%
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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Chicago Pneumatic

COMPRESSOR DATA SHEET
Rotary Screw Compressor

MODEL DATA - FOR COMPRESSED AIR			
1	Manufacturer: **Chicago Pneumatic Compressor**	Date: **April 2011**	
2	Model Number: **QRS-25** ☒ Air-cooled ☐ Water-cooled	# of Stages: **Single**	
	☒ Oil-injected ☐ Oil-free	VALUE	UNIT
3	Rated Capacity at Full Load Operating Pressure	**105**	acfm[a,f]
4	Full Load Operating Pressure	**100**	psig[b]
5	Maximum Full Flow Operating Pressure	**107**	psig[c]
6	Drive Motor Nameplate Rating	**25**	hp
7	Drive Motor Nameplate Nominal Efficiency	**91**	percent
8	Fan Motor Nameplate Rating (if applicable)	**-**	hp
9	Fan Motor Nameplate Nominal Efficiency	**-**	percent
10	Total Package Input Power at Zero Flow	**3.9**	kW[e]
11	Total Package Input Power at Rated Capacity and Full Load Operating Pressure	**20.2**	kW[d]
12	Specific Package Input Power at Rated Capacity and Full Load Operating Pressure	**19.2**	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]
m^3 / min	ft^3 / min	%	%
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: **April 2011**	
2	Model Number: **QRS-25** ☒ Air-cooled ☐ Water-cooled	# of Stages: **Single**	
	☒ Oil-injected ☐ Oil-free	VALUE	UNIT
3	Rated Capacity at Full Load Operating Pressure	**100**	acfm[a,f]
4	Full Load Operating Pressure	**125**	psig[b]
5	Maximum Full Flow Operating Pressure	**132**	psig[c]
6	Drive Motor Nameplate Rating	**25**	hp
7	Drive Motor Nameplate Nominal Efficiency	**91**	percent
8	Fan Motor Nameplate Rating (if applicable)	**-**	hp
9	Fan Motor Nameplate Nominal Efficiency	**-**	percent
10	Total Package Input Power at Zero Flow	**3.9**	kW[e]
11	Total Package Input Power at Rated Capacity and Full Load Operating Pressure	**19.7**	kW[d]
12	Specific Package Input Power at Rated Capacity and Full Load Operating Pressure	**19.7**	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.
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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]
m^3 / min	ft^3 / min	%	%
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: **April 2011**	
2	Model Number: **QRS-25** ☒ Air-cooled ☐ Water-cooled	# of Stages: **Single**	
	☒ Oil-injected ☐ Oil-free	VALUE	UNIT
3	Rated Capacity at Full Load Operating Pressure	**90**	acfm[a,f]
4	Full Load Operating Pressure	**125**	psig[b]
5	Maximum Full Flow Operating Pressure	**132**	psig[c]
6	Drive Motor Nameplate Rating	**25**	hp
7	Drive Motor Nameplate Nominal Efficiency	**91**	percent
8	Fan Motor Nameplate Rating (if applicable)	**-**	hp
9	Fan Motor Nameplate Nominal Efficiency	**-**	percent
10	Total Package Input Power at Zero Flow	**3.9**	kW[e]
11	Total Package Input Power at Rated Capacity and Full Load Operating Pressure	**20.0**	kW[d]
12	Specific Package Input Power at Rated Capacity and Full Load Operating Pressure	**22.3**	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.
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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]
m^3 / min	ft^3 / min	%	%
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: **April 2011**	
2	Model Number: **QRS-30** ☒ Air-cooled ☐ Water-cooled	# of Stages: **Single**	
	☒ Oil-injected ☐ Oil-free	VALUE	UNIT
3	Rated Capacity at Full Load Operating Pressure	**124**	acfm[a,f]
4	Full Load Operating Pressure	**100**	psig[b]
5	Maximum Full Flow Operating Pressure	**107**	psig[c]
6	Drive Motor Nameplate Rating	**30**	hp
7	Drive Motor Nameplate Nominal Efficiency	**91**	percent
8	Fan Motor Nameplate Rating (if applicable)	**-**	hp
9	Fan Motor Nameplate Nominal Efficiency	**-**	percent
10	Total Package Input Power at Zero Flow	**6.4**	kW[e]
11	Total Package Input Power at Rated Capacity and Full Load Operating Pressure	**24.3**	kW[d]
12	Specific Package Input Power at Rated Capacity and Full Load Operating Pressure	**19.7**	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.
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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]
m^3 / min	ft^3 / min	%	%
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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Rotary Screw Compressor

MODEL DATA - FOR COMPRESSED AIR			
1	Manufacturer: **Chicago Pneumatic Compressor**	Date: **April 2011**	
2	Model Number: **QRS-30** ☒ Air-cooled ☐ Water-cooled	# of Stages: **Single**	
	☒ Oil-injected ☐ Oil-free	VALUE	UNIT
3	Rated Capacity at Full Load Operating Pressure	**117**	acfm[a,f]
4	Full Load Operating Pressure	**125**	psig[b]
5	Maximum Full Flow Operating Pressure	**132**	psig[c]
6	Drive Motor Nameplate Rating	**30**	hp
7	Drive Motor Nameplate Nominal Efficiency	**91**	percent
8	Fan Motor Nameplate Rating (if applicable)	**-**	hp
9	Fan Motor Nameplate Nominal Efficiency	**-**	percent
10	Total Package Input Power at Zero Flow	**6.4**	kW[e]
11	Total Package Input Power at Rated Capacity and Full Load Operating Pressure	**23.8**	kW[d]
12	Specific Package Input Power at Rated Capacity and Full Load Operating Pressure	**20.3**	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.
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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]
m^3 / min	ft^3 / min	%	%
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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Rotary Screw Compressor

MODEL DATA - FOR COMPRESSED AIR			
1	Manufacturer: **Chicago Pneumatic Compressor**	Date: **April 2011**	
2	Model Number: **QRS-30** ☒ Air-cooled ☐ Water-cooled	# of Stages: **Single**	
	☒ Oil-injected ☐ Oil-free	VALUE	UNIT
3	Rated Capacity at Full Load Operating Pressure	**104**	acfm[a,f]
4	Full Load Operating Pressure	**150**	psig[b]
5	Maximum Full Flow Operating Pressure	**157**	psig[c]
6	Drive Motor Nameplate Rating	**30**	hp
7	Drive Motor Nameplate Nominal Efficiency	**91**	percent
8	Fan Motor Nameplate Rating (if applicable)	**-**	hp
9	Fan Motor Nameplate Nominal Efficiency	**-**	percent
10	Total Package Input Power at Zero Flow	**6.4**	kW[e]
11	Total Package Input Power at Rated Capacity and Full Load Operating Pressure	**23.2**	kW[d]
12	Specific Package Input Power at Rated Capacity and Full Load Operating Pressure	**22.3**	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.
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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]
m^3 / min	ft^3 / min	%	%
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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