

ROT 030

10/11 R8

## **COMPRESSOR DATA SHEET**

## **Rotary Compressor: Fixed Speed**

Volume Flow Rate at specified conditionsSpecific Energy ConsumptionNo I Flow Rate $\underline{\mathrm{m}^3 / \min}$ $\underline{\mathrm{ft3} / \min}$ %%Below 0.5Below 15+/- 7+/- 80.5 to 1.515 to 50+/- 6+/- 71.5 to 1550 to 500+/- 5+/- 6		MODE	L DATA - FOR CO	MPRESSED AIR		
2   x   Air-cooled   Water-cooled   Type:   Sterew     3   Maximum Full Load Operating   # of Stages:   1     3*   Pressure ". °   1660   acfm <sup>2,e</sup> 4   Full Load Operating Pressure °   150   psig <sup>b</sup> 5   Maximum Full Flow Operating Pressure °   158   psig <sup>c</sup> 6   Drive Motor Nominal Rating   350   hp     7   Drive Motor Nominal Efficiency   96.2   percent     8   Fan Motor Nominal Efficiency   8(2*4)   hp     9   Fan Motor Nominal Efficiency   8(2*4)   hp     11   Total Package Input Power at Rated Capacity   334.7   kW <sup>d</sup> 12*   Specific Package Input Power at Rated   20.2   kW/100 cfm <sup>d</sup> 12*   Specific Package Input Power at Rated   20.2   kW/100 cfm <sup>d</sup> 12*   Specific Package Input Power at Rated   20.2   kW/100 cfm <sup>d</sup> <	1	Manufacturer:	Chicago Pneumatic			
Image: An econe in the econe is the econe in the econe in the econe is the econe in the econe in the econe is the econe in the econe in the econe is the econe in the econe in the econe is the econe in the econe in the econe is the ec		Model Number:	CPG 350	Date:	Aug-14	]
Rated Capacity at Full Load Operating   1660   acfm <sup>a,e</sup> 3*   Pressure <sup>4, c</sup> 1660   acfm <sup>a,e</sup> 4   Full Load Operating Pressure <sup>b</sup> 150   psig <sup>b</sup> 5   Maximum Full Flow Operating Pressure <sup>c</sup> 158   psig <sup>c</sup> 6   Drive Motor Nominal Rating   350   hp     7   Drive Motor Nominal Efficiency   96.2   percent     8   Fan Motor Nominal Efficiency   96.2   percent     9   Fan Motor Nominal Efficiency   82.5   percent     10*   Total Package Input Power at Zero Flow <sup>e</sup> 84.8   kW <sup>e</sup> 11   Total Package Input Power at Rated Capacity   334.7   kW/100 cfm <sup>e</sup> 12*   Specific Package Input Power at Rated   20.2   kW/100 cfm <sup>e</sup> Capacity and Full Load Operating Pressure <sup>d</sup> 20.2   kW/100 cfm <sup>e</sup> *Por models that are tosted in the CAGI Performance Verification Program, these items are verified by the third party administrate     Consult CAGI websitefor a list of participuts in the third party verification program.   www.cagi.org     NOTES:   a Measured at the discharge terminal point of the compressor package in accordance with DS 1217. Annex C. ACPM is actual cubic feep er minau at inlet c	2	<b>x</b> Air-cooled	Water-cooled	Type:	Screw	
$3^{*}$ Pressure $a.c.$ 1660 $a.cfm^{a.c.}$ 4   Full Load Operating Pressure   150 $psig^{b}$ 5   Maximum Full Flow Operating Pressure   158 $psig^{c}$ 6   Drive Motor Nominal Rating   350   hp     7   Drive Motor Nominal Efficiency   96.2   percent     8   Fan Motor Nominal Efficiency   82.5   percent     10*   Total Package Input Power at Zero Flow   84.8   kW <sup>6</sup> 11   Total Package Input Power at Rated Capacity   334.7   kW <sup>d</sup> 12*   Specific Package Input Power at Rated Capacity   334.7   kW/100 cfm <sup>4</sup> 12*   Specific Package Input Power at Rated   20.2   kW/100 cfm <sup>4</sup> 12*   Specific Package Input Power at Rated   20.2   kW/100 cfm <sup>4</sup> 12*   Specific Package Input Power at Rated   20.2   kW/100 cfm <sup>4</sup> 12*   Specific Package Input Power at Rated   20.2   kW/100 cfm <sup>4</sup> 12*   Specific Package Input Power at Rated   20.2   kW/100 cfm <sup>4</sup> 12*   Specific Package Input Power at Rated   20.2   kW/100 cfm <sup>4</sup>		x Oil-injected	Oil-free	# of Stages:	1	
4Full Load Operating Pressure150psig5Maximum Full Flow Operating Pressure158psig6Drive Motor Nominal Rating350hp7Drive Motor Nominal Efficiency96.2percent8Fan Motor Nominal Efficiency8(2*4)hp9Fan Motor Nominal Efficiency82.5percent10*Total Package Input Power at Zero Flow84.8kW°11Total Package Input Power at Zero Flow84.8kW°12*Specific Package Input Power at Rated Capacity and Full Load Operating Pressure20.2kW/100 cfm°12*Specific Package Input Power at Rated Capacity and Full Load Operating Pressure20.2kW/100 cfm°NOTES:a. Measured at the discharge terminal point of the compressor package in accordance with ISO 1217, Annex C; ACPM is actual cubic feel per minute at inlet conditions. b. The operating pressure attainable before capacity (Item 3) and Electrical Consumption (Item 11) were measured for this data sheet.A decayer at the discharge terminal point of the compressor package in accordance with ISO 1217, Annex C; ACPM is actual cubic feel per minute at inlet conditions. b. The operating pressure attainable before capacity (Item 3) and Electrical Consumption (Item 11) were measured for this data sheet.Motor Notice at the flow usually the unload pressure setting for load/no load control or the maximum pressure attainable at full flow, usually the unload pressure setting for load/no load control or the maximum pressure attainable at full flow, usually the unload pressure setting for load/no load control or the <br< td=""><td></td><td>Rated Capacity at Full I</td><td>Load Operating</td><td></td><td></td><td></td></br<>		Rated Capacity at Full I	Load Operating			
5   Maximum Full Flow Operating Pressure   C   158   psig <sup>C</sup> 6   Drive Motor Nominal Rating   350   hp     7   Drive Motor Nominal Efficiency   96.2   percent     8   Fan Motor Nominal Rating (if applicable)   8(2*4)   hp     9   Fan Motor Nominal Efficiency   82.5   percent     10 <sup>s</sup> Total Package Input Power at Zero Flow   84.8   kW <sup>c</sup> 11   Total Package Input Power at Zero Flow   84.8   kW <sup>d</sup> 12 <sup>st</sup> Specific Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>d</sup> 20.2   kW/100 cfm <sup>c</sup> Capacity and Full Load Operating Pressure <sup>c</sup> 20.2   kW/100 cfm <sup>c</sup> 20.2     **For models that are tested in the CAGI Performace Verification Program, these items are verified by the third party administrate Consult CAGI websitefor a list of participants in the third party verification program: www.cagi.org     **Tor models that are tested in the CAGI Performace Verification Program. these items are verified by the third party administrate Consult CAGI websitefor a list of participants in the third party verification or gram: www.cagi.org     NOTES:     a. Measured at the discharge terminal point of the compressor package in accordance with ISO 1217, Annex C: ACFM is acupacity (tem 3) and Electrical Consumption	3*	Pressure <sup>a, e</sup>		1660	acfm <sup>a,e</sup>	
6   Drive Motor Nominal Rating   350   hp     7   Drive Motor Nominal Efficiency   96.2   percent     8   Fan Motor Nominal Rating (if applicable)   8(2*4)   hp     9   Fan Motor Nominal Efficiency   82.5   percent     10*   Total Package Input Power at Zero Flow   84.8   kW <sup>e</sup> 11   Total Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>d</sup> 334.7   kW/d     12*   Specific Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>e</sup> 20.2   kW/100 cfm <sup>e</sup> *For models that are tested in the CAGI Performance Verification Program, these items are verified by the third party administrate Consult CAGI websitefor a list of participants in the third party verification program:   www.cagi.org     NOTES:     a. Measured at the discharge terminal point of the compressor package in accordance with ISO 1217, Ames C. (ACFM is actual cubic feet per minute at infe conditions.   b. The operating pressure at which the Capacity (Item 3) and Electrical Consumption (Item 11) were measured for this data sheet.     a. Measured at the discharge terminal point of the compressor package in accordance with ISO 1217, Ames C. (ACFM is actual cubic feet per minute at infe conditions.   b. The operating points will vary with control strategy.     b. The operating points with the Capacity (Item 3) and Electrical Co	4	Full Load Operating Pro	essure <sup>b</sup>	150	psig <sup>b</sup>	
7   Drive Motor Nominal Efficiency   96.2   percent     8   Fan Motor Nominal Rating (if applicable)   8(2*4)   hp     9   Fan Motor Nominal Efficiency   82.5   percent     10*   Total Package Input Power at Zero Flow <sup>e</sup> 84.8   kW <sup>e</sup> 11   Total Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>d</sup> 334.7   kW <sup>d</sup> 12*   Specific Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>e</sup> 20.2   kW/100 cfm <sup>e</sup> *For models that are tested in the CAGI Performance Verification Program, these items are verified by the third party administrate Consult CAGI websitefor a list of participants in the third party verification program:   www.cagi.org     NOTES:   a. Measured at the discharge terminal point of the compressor package in accordance with ISO 1217, Annex C, ACFM is actual cubic feet per minute at inlect conditions.   b. The operating pressure at which the Capacity (Item 3) and Electrical Consumption (Item 11) were measured for this data sheet.     • Maximum pressure attainable before capacity control begins. May require additional power.   c. Maximum pressure attainable before capacity control begins. May require additional power.     • Maximum pressure attainable before capacity control begins. May require additional power.   t. Total package input power at other than reported operating points will vary with control strategy.     • Total package	5	Maximum Full Flow O	perating Pressure <sup>c</sup>	158	psig <sup>c</sup>	
8   Fan Motor Nominal Rating (if applicable)   8(2*4)   hp     9   Fan Motor Nominal Efficiency   82.5   percent     10*   Total Package Input Power at Zero Flow   84.8   kW <sup>e</sup> 11   Total Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>d</sup> 334.7   kW <sup>d</sup> 12*   Specific Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>e</sup> 20.2   kW/100 cfm <sup>e</sup> *For models that are tested in the CAGI Performance Verification Program, these items are verified by the third party administrate Consult CAGI websitefor a list of participants in the third party verification program:   www.cagi.org     NOTES:   a. Measured at the discharge terminal point of the compressor package in accordance with ISO 1217, Annex C; ACFM is actual cubic feet per minute at infet conditions.   b. The operating pressure attainable before capacity cordor bagins. May require additional power.     b. The operating pressure attainable before capacity cordor bagins. May require additional power.   c. Maximum pressure attainable at full flow, usually the unload pressure setting for load/no load control or the maximum pressure attainable before capacity cordorab pagins. May require additional power.   t. Total package input power at other than reported operating points will vary with control strategy.     c. Total package input power at other than reported operating points will vary with control strategy.   t. Total package input power at other than reported op	6	Drive Motor Nominal F	Rating	350	hp	
9     Fan Motor Nominal Efficiency     82.5     percent       10*     Total Package Input Power at Zero Flow <sup>e</sup> 84.8     kW <sup>e</sup> 11     Total Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>d</sup> 334.7     kW <sup>d</sup> 12*     Specific Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>e</sup> 20.2     kW/100 cfm <sup>e</sup> *For models that are tested in the CAGI Performance Verification Program, these items are verified by the third party administrate Consult CAGI websitefor a list of participants in the third party verification program:     www.cagi.org       NOTES:     a. Measured at the discharge terminal point of the compressor package in accordance with ISO 1217. Annex C; ACFM is a catual cubic feet per minute at inlet conditions.     b. The operating pressure at think the Capacity (Item 3) and Electrical Consumption (Item 11) were measured for this data sheet.     c. 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 ISO 1217, Annex C, as shown in table below:       Volume Flow Rate at specified conditions     Volume Flow Rate Specific Energy At Specific Energy 0.5 to 1.5     15 to 50     4/-7     4/-8       0.5 to 1.5     15 to 50     4/-6     4/-7     -     -	7	Drive Motor Nominal E	Efficiency	96.2	percent	
10*   Total Package Input Power at Zero Flow <sup>e</sup> 84.8   kW <sup>e</sup> 11   Total Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>d</sup> 334.7   kW <sup>d</sup> 12*   Specific Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>e</sup> 20.2   kW/100 cfm <sup>e</sup> *For models that are tested in the CAGI Performance Verification Program, these items are verified by the third party administrate Consult CAGI websitefor a list of participants in the third party verification program:   www.cagi.org     NOTES:   a. Measured at the discharge terminal point of the compressor package in accordance with ISO 1217, Annex C; ACFM is actual cubic feet per minute at inlet conditions.   b. The operating pressure at which the Capacity (Iem 3) and Electrical Consumption (Item 11) were measured for this data sheet.     • Maximum pressure attainable before capacity control begins. May require additional power.   c. Maximum pressure attainable before capacity control begins. May require additional power.     • Total package input power at other than reported operating points will vary with control strategy.   Total package input power at other than reported operating points will vary with control strategy.     • Total package input power at Doter tal package input power at other than reported operating points will vary with control strategy.   Total package input power at Doter tal packa	8	Fan Motor Nominal Ra	ting (if applicable)	8(2*4)	hp	
11   Total Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>d</sup> 334.7   kW <sup>d</sup> 12*   Specific Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>e</sup> 20.2   kW/100 cfm <sup>e</sup> *For models that are tested in the CAGI Performance Verification Program, these items are verified by the third party administrate Consult CAGI websitefor a list of participants in the third party verification program:   www.cagi.org     NOTES:   a. Measured at the discharge terminal point of the compressor package in accordance with ISO 1217, Annex C; ACFM is actual cubic feet per minute at latet conditions.   b. Measured at the discharge terminal point of the compressor package in accordance with ISO 1217, Annex C; ACFM is actual cubic feet per minute at latet conditions.     * Member   • Maximum pressure attainable at full flow, usually the unload pressure setting for load/no load control or the maximum pressure attainable before capacity (ontrol begins. May require additional power.     • Total package input power at other than reported operating points will vary with control strategy.     • Total package input power at other than reported operating points will vary with control strategy.     • Total package input Pow Rate 0.5 to 1.5   15 to 50     * Volume Flow Rate 0.5 to 1.5   15 to 50     * Below 0.5   Below 15   4/-7     * Below 0.5   Below 15   4/-7     * Below 0.5   Below 15   4/-6	9	Fan Motor Nominal Eff	ficiency	82.5	percent	
and Full Load Operating Pressure <sup>d</sup> 12*   Specific Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>e</sup> 20.2   kW/100 cfm <sup>e</sup> *For models that are tested in the CAGI Performance Verification Program, these items are verified by the third party administrate Consult CAGI websitefor a list of participants in the third party verification program: www.cagi.org     NOTES:   a. Measured at the discharge terminal point of the compressor package in accordance with ISO 1217, Annex C; ACFM is actual cubic feet per minute at inlet conditions.     b. The operating pressure at which the Capacity (Item 3) and Electrical Consumption (Item 11) were measured for this data sheet.   • 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.   • Tolapackage input power at other than reported operating points will vary with control strategy.     c. Tolarance is specified in ISO 1217, Annex C, as shown in table below:   Volume Flow Rate   Consumption     Wolume Flow Rate   Volume Flow Rate   Consumption   Flore     0.5 to 1.5   15 to 50   +/-7   +/-8   +/-7     0.5 to 1.5   15 to 50   +/-6   +/-7   +/-6	10*	Total Package Input Po	wer at Zero Flow <sup>e</sup>	84.8	kW <sup>e</sup>	
12   1	11			334.7	$kW^d$	
*For models that are tested in the CAGI Performance Verification Program, these items are verified by the third party administrate Consult CAGI websitefor a list of participants in the third party verification program: <a href="https://www.cagi.org">www.cagi.org</a> NOTES:   a. Measured at the discharge terminal point of the compressor package in accordance with ISO 1217, Annex C; ACFM is actual cubic feet per minute at inlet conditions.   b. The operating pressure at which the Capacity (Item 3) and Electrical Consumption (Item 11) were measured for this data sheet.     • 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.   c. Maximum pressure attainable before capacity control begins. May require additional power.     • Total package input power at other than reported operating points will vary with control strategy.   c. Total package input power at other than reported operating points will vary with control strategy.     • Total package input power at other than reported operating points will vary with control strategy.   the distrategin fits/min %     • Total package input power at other than reported operating points will vary with control strategy.   the distrategin fits/min %     • Total package input power at other than reported operating points will vary with control strategy.   the distrategin fits/min %     • Total package input power at other than reported operating points will vary with control strategy.   the distrategin fits/min %     • Total package input power at other th	12*			20.2	kW/100 cfm <sup>e</sup>	
NOTES:   a. Measured at the discharge terminal point of the compressor package in accordance with ISO 1217, Annex C; ACFM is actual cubic feet per minute at inlet conditions.     Member   b. The operating pressure at which the Capacity (Item 3) and Electrical Consumption (Item 11) 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 ISO 1217, Annex C, as shown in table below:     Volume Flow Rate   Volume Flow Rate     Monter flow 0.5   Below 15     main   min     Measured in figs / min   %     %   %     1.5 to 15   50 to 500		els that are tested in the CAGI	Performance Verification P	0	• • •	nistrator.
Member   ISO 1217, Annex C; ACFM is actual cubic feet per minute at inlet conditions.   b. The operating pressure at which the Capacity (Item 3) and Electrical Consumption (Item 11) 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.   c. 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.   c. Tolerance is specified in ISO 1217, Annex C, as shown in table below:     Volume Flow Rate   Volume Flow Rate   Consumption     m <sup>3</sup> /min   ft3/min   %     Below 0.5   Below 15   +/-7     0.5 to 1.5   15 to 50   +/-6     1.5 to 15   50 to 500   +/-5   +/-6				1 0		
Member   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. Total package input power at other than reported operating points will vary with control strategy.     Total package input power at other than reported operating points will vary with control strategy.     e. Tolerance is specified in ISO 1217, Annex C, as shown in table below:     Volume Flow Rate   Specific Energy   No I     main   ft3/min   %   %     Below 0.5   Below 15   +/-7   +/-8     0.5 to 1.5   15 to 50   +/-6   +/-7   -/-6     1.5 to 15   50 to 500   +/-5   +/-6   +/-7	NOTES:				e with	
Volume Flow Rate   Volume Flow Rate   Specific Energy   No I     Maximum or specified conditions   Volume Flow Rate   Consumption   Flow     Maximum or specified conditions   Volume Flow Rate   Volume Flow Rate   Consumption     Maximum or specified conditions   Volume Flow Rate   Volume Flow Rate   Consumption   Flow     Maximum or specified conditions   Volume Flow Rate   Volume Flow Rate   Consumption   Flow     Maximum or specified conditions   Volume Flow Rate   Volume Flow Rate   Consumption   Flow     Maximum or specified conditions   Volume Flow Rate   Volume Flow Rate   Consumption   Flow     Maximum or specified conditions   Volume Flow Rate   Volume Flow Rate   Consumption   Flow     Maximum or specified conditions   Volume Flow Rate   Volume Flow Rate   Consumption   Flow     Maximum or specified conditions   Volume Flow Rate   Volume Flow Rate   Volume Flow   Kate     0.5 to 1.5   1.5 to 50   +/-7   +/-8   -   -     1.5 to 15   50 to 500   +/-5   +/-6   -   -	Member		e at which the Capacity (Item 3	) and Electrical Consumption	(Item 11) were measured	
AUGSeed Air & Gas Instituted. Total package input power at other than reported operating points will vary with control strategy. e. Tolerance is specified in ISO 1217, Annex C, as shown in table below:Specific Energy ConsumptionNo IVolume Flow Rate at specified conditionsVolume Flow RateSpecific Energy ConsumptionNo I $\frac{m^3 / min}{16000000000000000000000000000000000000$		c. Maximum pressure atta	•	· · · · ·		
e. Tolerance is specified in ISO 1217, Annex C, as shown in table below: $\frac{Volume Flow Rate}{at specified conditions} + Volume Flow Rate} + Specific Energy Consumption Flow Rate} + Specific Energy Consumption + Specific Energy + Sp$	Διτι					
Volume Flow Rate at specified conditionsNo I Specific Energy ConsumptionNo I Flow 		e. Tolerance is specified			or or ano <sub>D</sub> ,	
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	eu Air & Gas Institute				0.17.5	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				Volume Flow Rate		No Load Flow F
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		-			-	110001
0.5 to 1.5   15 to 50   +/- 6   +/- 7   -     1.5 to 15   50 to 500   +/- 5   +/- 6				+/- 7	+/- 8	1
1.5 to 15 50 to 500 +/- 5 +/- 6		0.5 to 1.5		+/- 6	+/- 7	+/-
		1.5 to 15		+/- 5	+/- 6	
Above 15 Above 500 +/- 4 +/- 5			2010200			