

# Engineering Data Specifications

MODEL	CAPACITY SCFM @ 100 PSIG (Nm <sup>3</sup> /min@6.9 Bar)	STANDARD ELECTRICS	Avail. KW	Oper. KW	SC ΔP PSIG (Bar)	CT ΔP PSIG (Bar)	REF. H.P.	Max. PSI (Bar)	DIMENSIONS				APPROX. WEIGHT LBS (KG)	CONN. IN/OUT
									L (mm)	W (mm)	H (mm) SC	H (mm) CT		
SC/CT 40	40 (1.1)	115 - 1 Ph	0.62	0.49	1.4 (0.10)	2.9 (.20)	1/3	200 (13.8)	34 (864)	15 (381)	23 (584)	23 (584)	170 (77)	1"
SC/CT 60	60 (1.6)	115 - 1 Ph	0.95	0.76	1.9 (0.13)	3.4 (.23)	1/2	200 (13.8)	34 (864)	15 (381)	23 (584)	23 (584)	186 (84)	1"
SC/CT 80	80 (2.1)	115 - 1 Ph	0.95	0.88	2.5 (0.17)	4.0 (.28)	1/2	200 (13.8)	35 (889)	20 (508)	32 (813)	32 (813)	224 (102)	1"
SC/CT 100	100 (2.7)	115 - 1 Ph	1.42	0.97	1.5 (0.10)	3.0 (.21)	3/4	200 (13.8)	35 (889)	20 (508)	32 (813)	32 (813)	241 (109)	1-1/2"
SC/CT 130	130 (3.5)	115 - 1 Ph	1.42	1.13	1.9 (0.13)	3.4 (.23)	3/4	200 (13.8)	35 (889)	20 (508)	32 (813)	32 (813)	265 (120)	1-1/2"
SC/CT 165	165 (4.4)	115 - 1 Ph	1.42	1.27	2.4 (0.17)	3.9 (.27)	3/4	200 (13.8)	35 (889)	20 (508)	32 (813)	32 (813)	265 (120)	1-1/2"
SC/CT 220	220 (5.9)	208/230 - 1 Ph	1.80	1.49	4.3 (0.30)	5.8 (.40)	1	200 (13.8)	47 (1194)	22 (559)	38 (965)	38 (965)	390 (177)	2"
SC/CT 250	260 (6.9)	208/230 - 1 Ph	2.14	1.70	4.9 (0.34)	6.4 (.44)	1-1/2	200 (13.8)	47 (1194)	22 (559)	38 (965)	38 (965)	480 (218)	2"
SC/CT 330	330 (8.8)	208/230 - 1 Ph	2.14	1.88	3.1 (0.21)	4.6 (.32)	1-1/2	200 (13.8)	55 (1397)	28 (711)	52 (1321)	52 (1321)	715 (324)	2"
SC/CT 400	400 (10.7)	460 - 3 Ph	2.77	2.50	1.8 (0.12)	3.3 (.23)	2	200 (13.8)	55 (1397)	28 (711)	52 (1321)	52 (1321)	925 (420)	2-1/2"
SC/CT 500	520 (13.9)	460 - 3 Ph	4.22	3.40	2.4 (0.17)	3.9 (.27)	3	200 (13.8)	55 (1397)	28 (711)	52 (1321)	52 (1321)	940 (426)	2-1/2"
SC/CT 650	650 (17.4)	460 - 3 Ph	4.22	3.60	3.6 (0.25)	5.1 (.35)	3	200 (13.8)	55 (1397)	28 (711)	52 (1321)	52 (1321)	940 (426)	2-1/2"
SC/CT 800	820 (22.0)	460 - 3 Ph	4.94	4.27	2.2 (0.15)	3.7 (.26)	4	200 (13.8)	74 (1880)	41 (1041)	61 (1549)	61 (1549)	1620 (735)	3" FLG
SC/CT 1000	1050 (28.1)	460 - 3 Ph	6.74	5.95	3.4 (0.23)	4.9 (.34)	5	200 (13.8)	74 (1880)	41 (1041)	61 (1549)	61 (1549)	1800 (816)	3" FLG
SC/CT 1200	1250 (33.5)	460 - 3 Ph	6.74	6.28	3.6 (0.25)	5.1 (.35)	5	200 (13.8)	74 (1880)	41 (1041)	61 (1549)	61 (1549)	1850 (839)	3" FLG
SC/CT 1500	1600 (42.9)	460 - 3 Ph	7.74	7.10	3.5 (0.24)	5.0 (.34)	7-1/2	200 (13.8)	78 (1981)	48 (1219)	61 (1549)	61 (1549)	2200 (998)	4" FLG
SC/CT 2000	2050 (54.9)	460 - 3 Ph	10.36	7.63	2.9 (0.20)	4.4 (.03)	10	150 (10.4)	96 (2438)	48 (1219)	59 (1499)	74 (1880)	3000 (1361)	6" FLG
SC/CT 2500	2500 (66.8)	460 - 3 Ph	13.30	9.99	3.7 (0.26)	5.2 (.36)	15	150 (10.4)	102 (2591)	54 (1372)	67 (1702)	83 (2108)	3370 (1529)	6" FLG
SC/CT 3000	3200 (85.4)	460 - 3 Ph	13.30	11.40	3.6 (0.25)	5.1 (.35)	15	150 (10.4)	108 (2743)	66 (1676)	77 (1956)	83 (2108)	4015 (1821)	6" FLG

SC/CT 4,000 - 50,000 See Magnum Brochure

SC prefix designates Smart Cycle Configuration.

CT prefix designates Cold Trap configuration.

#### Notes:

1. Rated conditions meet recommended Standard NFPA/T3.27.2-198 (ANSI B93, 45M) and CAGI Standard No. ADF 100 for Class H 33°F - 39°F (1°C - 4°C) pressure dew point, are based on 100 PSIG (6.9 Bar) inlet air pressure, 100°F (38°C) inlet air temperature, 85°F (29°C) cooling water temperature and 100°F (38°C) Ambient air temperature. Maximum air side pressure drop is 5 psi (0.3 Bar). See actual pressure drop listed for each model.
2. For non-standard voltages, see options on pages 14 and 15.
3. Due to continuing research and development, specifications and dimensions are subject to change without notice.
4. All CT Dryers are heavier depending on size of dryer. Consult factory for exact weight.

INLET AIR PRESSURE CORRECTION						
<b>A</b>	PSI	50	75	100	125	150
	BAR	3.5	5.2	6.9	8.6	10.3
	FACTOR	0.8	0.9	1	1.02	1.05

AMBIENT AIR TEMPERATURE CORRECTION						
<b>B</b>	TEMP °F	90	100	110	-	-
	°C	32	38	43	-	-
	FACTOR	1.05	1	0.9	-	-

INLET AIR TEMPERATURE CORRECTION						
<b>C</b>	TEMP °F	80	90	100	110	120
	°C	27	32	38	43	49
	FACTOR	1.5	1.22	1	.83	.69

EXAMPLE CONDITION	
<b>SC/CT 500 CORRECTED FOR:</b>	
Inlet Pressure.....	125 PSIG / 8.6 BAR
Inlet Temperature.....	120° F / 49° C
Ambient Temperature.....	110° F / 43° C

EXAMPLE CALCULATIONS	
<b>CORRECTED CAPACITY</b>	= STANDARD CAPACITY X (A) X (B) X (C)
	= 520 SCFM (13.9 Nm <sup>3</sup> /min) X (1.02) X (.9) X (.69)
	= 329 SCFM (8.8 Nm <sup>3</sup> /min)