



HFC-227ea CLEAN AGENT CYLINDER

PRODUCT TECHNICAL DRAWING

DESCRIPTION

The Clean Agent cylinders are manufactured, tested and stamped in accordance with DOT 4BW500 or DOT 4BA500. All cylinders are equipped with differential pressure valve. A piston in the valve bore is equipped with a rubber seal that keeps the HFC-227ea Clean Agent under pressure within the cylinder. Since the area at the top of the piston is greater than the area at the bottom of the piston, the net force seals the piston against the valve discharge outlet. When the cylinder pressure on the top of the piston is relieved by means of automatic or manual activation, there is only cylinder pressure acting against the piston seal, and the piston slide to full open position, allowing cylinder discharge through the distribution piping network. Each of the basic sizes can be filled with one pound increments to meet the exact amount of HFC-227ea Clean Agent required, within their fill ranges as shown in Table-1.

TEMPERATURE LIMITS:
32°F (0°C) to 130°F (54.4°C)

SYSTEM OPERATING PRESSURE:
360 psi at 70°F (25.3 kgf/cm² at 21.1°C)

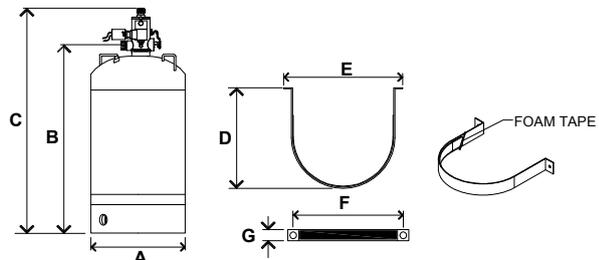
TABLE-1: CYLINDER FILLING DATA

HFC-227ea Clean Agent cylinders are available in the following capacities:

Part Number	Cylinder Size	Max Fill at 70lb/ft ³	Min Fill at 30lb/ft ³	Valve Size
CR 90020-E	20 LB	20 LB	9 LB	1" Valve
CR 90035-E	35 LB	44 LB	19 LB	1" Valve
CR 90070-E	70 LB	71 LB	31 LB	1" Valve
CR 90100-F	100 LB	71 LB	31 LB	1" Valve
CR 90150-E	150 LB	152 LB	66 LB	1 1/2" Valve
CR 90250-E	250 LB	253 LB	109 LB	1 1/2" Valve
CR 90375-E	375 LB	379 LB	163 LB	2 1/2" Valve
CR 90560-E	560 LB	561 LB	241 LB	2 1/2" Valve

TABLE-2: CYLINDER DIMENSIONS

Part Number	A	B	C
CR 90020-E	10.75"	13.8"	18.5"
CR 90035-E	10.75"	18.7"	23.5"
CR 90070-E	10.75"	27.2"	31.9"
CR 90100-F	12.8"	28"	32.9"
CR 90150-E	12.8"	37.4"	42.9"
CR 90250-E	16"	39.8"	45.7"
CR 90375-E	16"	57.1"	64.9"
CR 90560-E	20"	55.7"	63.6"



CYLINDER BRACKET

The cylinder bracket is manufactured from carbon steel band formed to the radius of the cylinder as shown in Table-3 with flanges for bolting to continuous slot metal framing channel of 12-gauge steel with corrosion resistant paint or galvanized. The channel shall be supplied by the installer. The cylinder bracket shall be secured to a surface that, the bracket will withstand a load up to 5 times of the cylinder weight. This precaution is to have the bracket safely support the weight of the cylinder and the reaction force of the HFC-227ea Clean Agent when discharged.

TABLE-3: CYLINDER BRACKET DIMENSIONS

Cylinder Part No.	Cylinder Outer Dia.	D	E	F	G	Bracket Part No.
CR 90020-E	10.75"	11.00"	14.00"	12.60"	2.00"	CR 50139
CR 90035-E	10.75"	11.00"	14.00"	12.60"	2.00"	CR 50139
CR 90070-E	10.75"	11.00"	14.00"	12.60"	2.00"	CR 50139
CR 90100-F	12.80"	13.00"	16.05"	14.65"	2.00"	CR 60780
CR 90150-E	12.80"	13.00"	16.05"	14.65"	2.00"	CR 60780
CR 90250-E	16.00"	16.25"	19.20"	17.80"	2.00"	CR 60760
CR 90375-E	16.00"	16.25"	19.20"	17.80"	2.00"	CR 60760
CR 90560-E	20.00"	20.25"	23.20"	21.70"	2.00"	CR 60770



IMPORTANT:

CHEMORI reserves the right to change or modify without any previous notice of specification due to changes or modification in order to improve the products presented.

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Revised Date: OCTOBER 2016