

THERMAL

ENGINEERING COMPANY

THERMAL CHARG-CHECK MODELS 7001-7010, U7001-U7010

Operating Instructions for Refillable Charging Cylinders

Charg-Check cylinders are filled by evacuation. Connect a hose with valve depressor between the access valve on top-of the Charg-Check and the intake fitting on a vacuum pump. After evacuation is complete, connect a hose from the lower valve of the Charg-Check to the refrigerant supply cylinder liquid valve. Open Charg-Check and supply cylinder and allow refrigerant to rise to desired level in gauge glass.

If refrigerant does not fill the cylinder, purge vapor into a refillable storage tank until liquid rises to desired level. Chilling the Charg-Check improves the refrigerant transfer. A Refrigerant Recovery Unit can also be used to pull vapor from the top of the Charg-Check. The two sliding rings allow the starting and ending refrigerant levels to be marked for reference when charging. **CAUTION: DO NOT FILL CYLINGER ABOVE TOP MARK ON SCALE.**

Use the Temperature Correction Chart to correct refrigerant volume for temperature. The temperature used for correction must be that of the refrigerant in the cylinder, not the ambient temperature. All 2lf21b through 10 lb models have gauges, which indicate the refrigerant temperature directly.

Ounce Chart: The chart indicates only units and tens of ounces so it is necessary to add the two figures. For example: to charge 37 ounces of R-134a at 100°F refrigerant temperature, add the amounts for 30 ounces (31) and 7 ounces (7.24) for a total of 38.24 ounces as read on the R-134a @ 80°F scale.

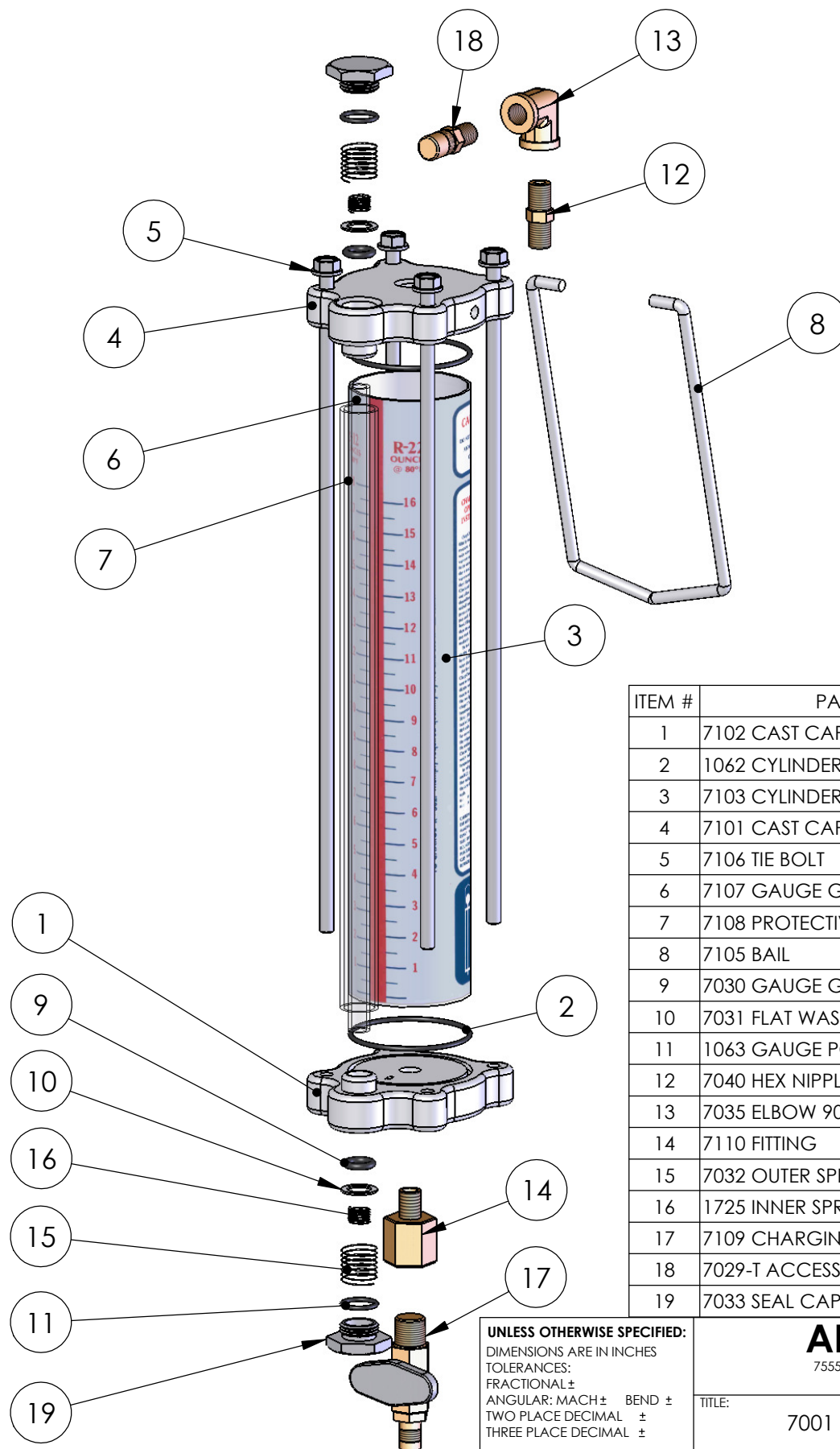
Gram Chart: The chart indicates only tens and hundreds of grams so it is necessary to add the two figures. For example: to charge 370 g of R134a at 40°C refrigerant temperature, and the amounts for 300 g (314) and 70 g (73.4) for a total of 387.4 g as read on the R134a @ 25°C scale

CAUTION: DO NOT FILL CYLINDER WITH METHYL CHLORIDE, AMMONIA OR ANY REFRIGERANT WITH VAPOR PRESSURE OVER 250 PSI (17.2 BAR, 17.6 KG/CM²) AT SURROUNDING AMBIENT TEMPERATURE. USE SAFETY GOGGLES WHEN WORKING WITH REFRIGERANTS.

THERMAL ENGINEERING COMPANY

A Division of Airserco Manufacturing Company LLC

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ITEM #	PART NUMBER	QTY.
1	7102 CAST CAP, ONE POUND, LOWER	1
2	1062 CYLINDER O-RING	2
3	7103 CYLINDER	1
4	7101 CAST CAP, ONE POUND, UPPER	1
5	7106 TIE BOLT	4
6	7107 GAUGE GLASS	1
7	7108 PROTECTIVE TUBE	1
8	7105 BAIL	1
9	7030 GAUGE GLASS O-RING	2
10	7031 FLAT WASHER	2
11	1063 GAUGE POST O-RING	2
12	7040 HEX NIPPLE	1
13	7035 ELBOW 90DEG	1
14	7110 FITTING	1
15	7032 OUTER SPRING	2
16	1725 INNER SPRING	2
17	7109 CHARGING VALVE	1
18	7029-T ACCESS VALVE	1
19	7033 SEAL CAP	2

UNLESS OTHERWISE SPECIFIED:
 DIMENSIONS ARE IN INCHES
 TOLERANCES:
 FRACTIONAL ±
 ANGULAR: MACH ± BEND ±
 TWO PLACE DECIMAL ±
 THREE PLACE DECIMAL ±

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TITLE: 7001 EXPLODED VIEW	
DRAWN BY: BOBBY BONITATI	APPROVED BY:
CHECKED BY:	REV: A
DATE: 12/21/2006	SCALE: 1:2.5 SHEET 1 OF 1

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PART #:
 MATERIAL:
 FINISH:
 DO NOT SCALE DRAWING

NOTE: THIS IS THE SAME AS THE TOP SEAL