

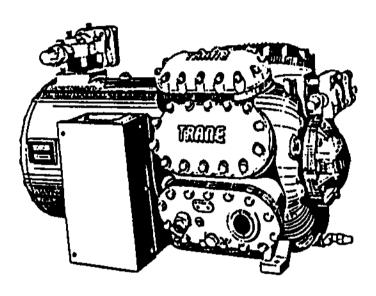
# SEMI-HERMETIC RECIPROCATING COMPRESSOR

## HCOM-UP-93

**Unit Parts** 

Model(s)

CRHE 6 & 8 Cylinder "M" Design Sequence



Library	Unit Perts Literature
Product Section	Refrigeration
Product	Compressor-Condensing Unit
Model	HCOM
Literature Type	Unit Parts
Sequence	93
Date	January, 1991
File No.	UP-RF-COM-HCOM-UP-93-191
Supersedes	

This parts list is designed for ease of parts selection. Wherever possible, the parts list allows parts selection without the use of the Trane model number. Parts may be selected from the lifustrations and/or tables from the parts index located at the back of the parts list.

Contact your local Trane Parts Center for assistance or identification of any parts not identified in this parts list.

Since The Trane Company has a policy of continuous product improvement and parts standardization, it reserves the right to change specifications and design without notice. This parts that identifies known standardized parts and other parts changed by standardization. The installation and servicing of this equipment should be done by qualified, experienced technicians.

# CRHE-750K-4M P 1

#### 1 2 3 4 5 6 7 8 9 10 11 12

C = POSITIVE DISPLACEMENT REFRIGERANT COMPRESSOR

DIGIT 2

R = RECIPROCATING

DIGIT 3

H \* HERMETIC, INTERNAL MOTOR

DIGIT 4

COMPRESSOR MODEL AND DEVELOPMENT SEQUENCE

E = 1750 RPM HORIZONTAL SERVICEABLE, CAST IRON

DIGIT 5, 6, 7

VALVE LIFT	MPRESSOR SIZE SU REFRIGERANT COM DIGITS 5, 6, 7		CU. IN.	110	4000000
MODEL E	SIZE	REFRIGERANT	PER REV.	NO. CYL.	Special Feature
	750	R-22	173.3	6	STD. LIFT VALVES
	100	R-22	231.0	8	STD. LIFT VALVES
	751	R-22	173.3	6	LOW LIFT VALVES
	101	R-22	231.0	8	LOW LIFT VALVES

DIGIT B

#### COMPRESSOR MOTOR FREQUENCY AND VOLTAGE

NOMINAL	MIN. VOLTS	MAX. VOLTS
A = 200-60-3	180	220
B = 230/460-60-3	207/414	254/506
C = 460-60-3	414	508
D * 575-60-3	518	635
E = 200/400-50-3	180/343	220/456
F = 220-50-3	198	254 (242 ON MODEL E)
G = 400-50-3	343	456
H = 208/230-60-1	197	254
J = 200/230-60-3	180	254
J = 200/220-50-3	180	254
K = 400-50-3/460-60-3	340/414	460/508
L = 208-50/60-3	198	229
M = 230-50/60-1	215	254
א = 115-60-1	109	128
P = 208-400-3	198	229
Q = 200-50-3/230-60-3	180/207	220/254
R = 208-60-3	187	254
S = SPECIAL		
U = 200-50/60-3	180	220
V = 346-50-3	308	381
W = 230-60-3	208	25 <b>4</b>
X = 380-60-3	342	418
Y = 200-50-3	180	220
2 * 363-50-3	327	3 <b>99</b>

BLANK = CAST IRON HERMETIC WITHOUT MOTOR (EPINAL)

#### DIGIT 9

		SSOR UNLOADING OF CYLINDERS THAT	UNLOAD
0	=	NONE	
1	=	1	
2	=	2	
3	=	3	
4	•	4	
5	=	5	
6	•	6	

DIGIT 10

DESIGN SEQUENCE FACTORY ASSIGNED DIGIT M = FIRST

\* REMANUFACTURED COMPRESSORS WILL HAVE "R" AS THE 10TH DIGIT

DIGIT 11

UNLOADER CONTROL AND UNLOADING METHOD

O = NO LOADING
A = 115 VAC, ELECTRIC
B = 230 VAC, ELECTRIC
C = 12 VDC, ELECTRIC
E = 32 VDC, ELECTRIC
F = 64 VDC, ELECTRIC
G = 187 VDC, ELECTRIC
H = 24 VAC, ELECTRIC
P = SUCTION PRESSURE UNLOADING
R = REMOTE ELECTRIC, COMPRESSOR HANDHOLE
COVER ONLY
S = SPECIAL

#### DIGIT 12

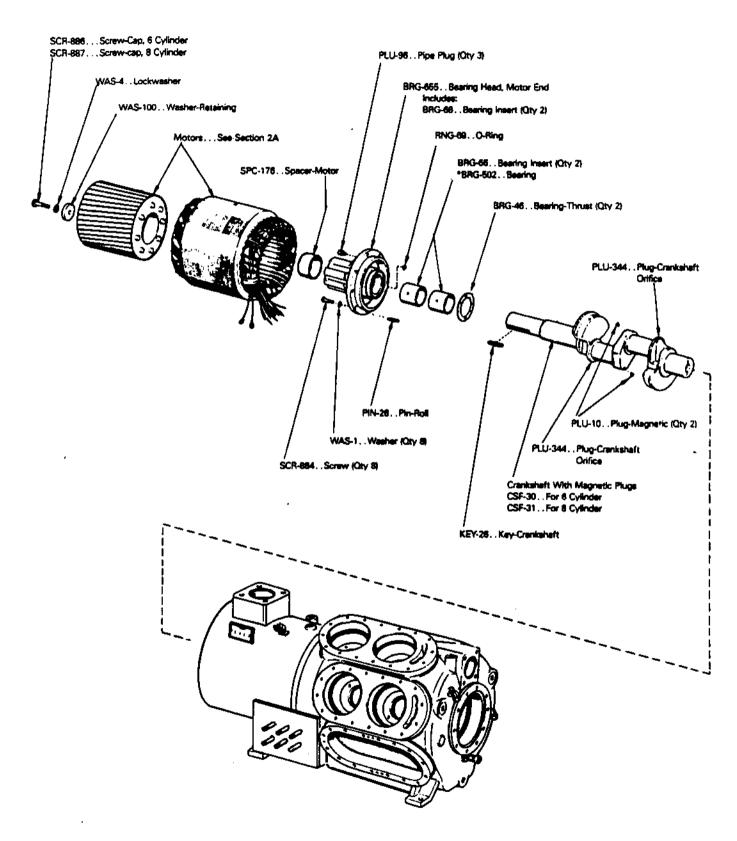
BASIC COMPRESSOR VARIATION 0 = STANDARD COMPRESSOR

1 - 100% UNLOADED START

2 = STANDARD COMPRESSOR -RIGHT HAND

3 = 100% UNLOADED START - RIGHT HAND

## Section 2 - Motor and Crankshaft Assembly

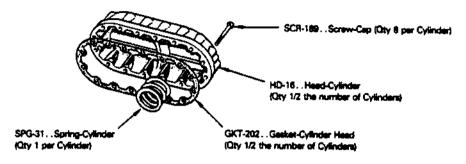


Undersized Beering, Used on remanufactured compressors.
 Bearing must be used in conjunction with undersized crankshaft.
 See Service Bulletin... HCOM-SB-59.

# Section 3 - Cylinder Head Assembly Discharge Valve Assembly . . VAL-1090 Piston & Connecting Rod Assembly . . PST-17

Note: All Parts Shown Below Are PER CYLINDER Unless Otherwise Noted.

Cylinder Head Assy Consists Of:



SET-5. . Seet-Discharge Valve

must be used in conjunction with undersized crankshaft. See

Service Bulletin., HCOM-SB-59.

VAL-1090 . Discharge Valve Assy Complete
Consists Of:

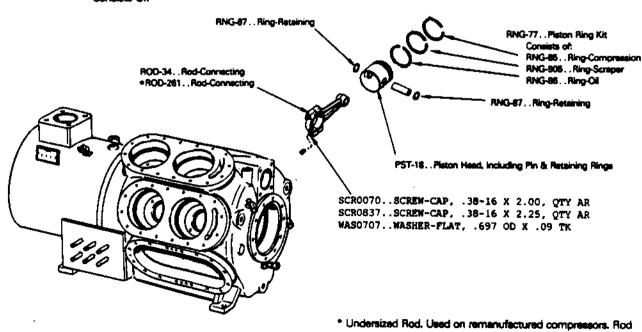
NUT-71 . . Nut-Velve Cage Bolt

VAL-567 . . Velve-Discharge

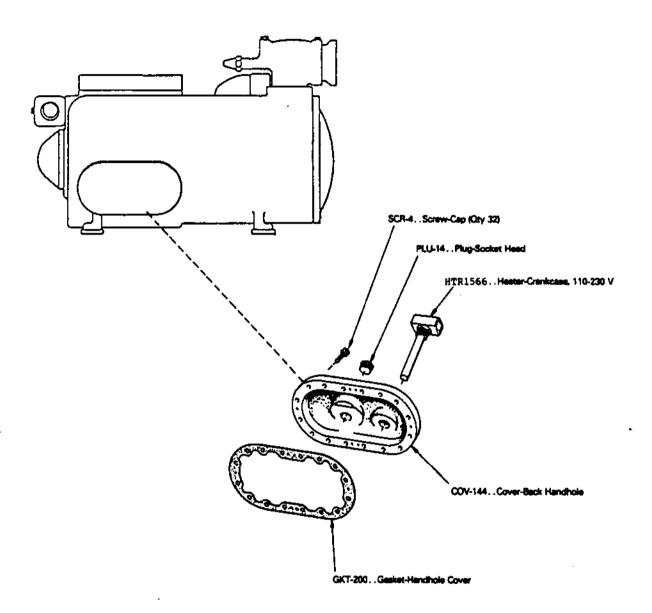
CAG-26 . . Cage-Velve

SPG-56 . . Spring-Discharge (Oty 6)

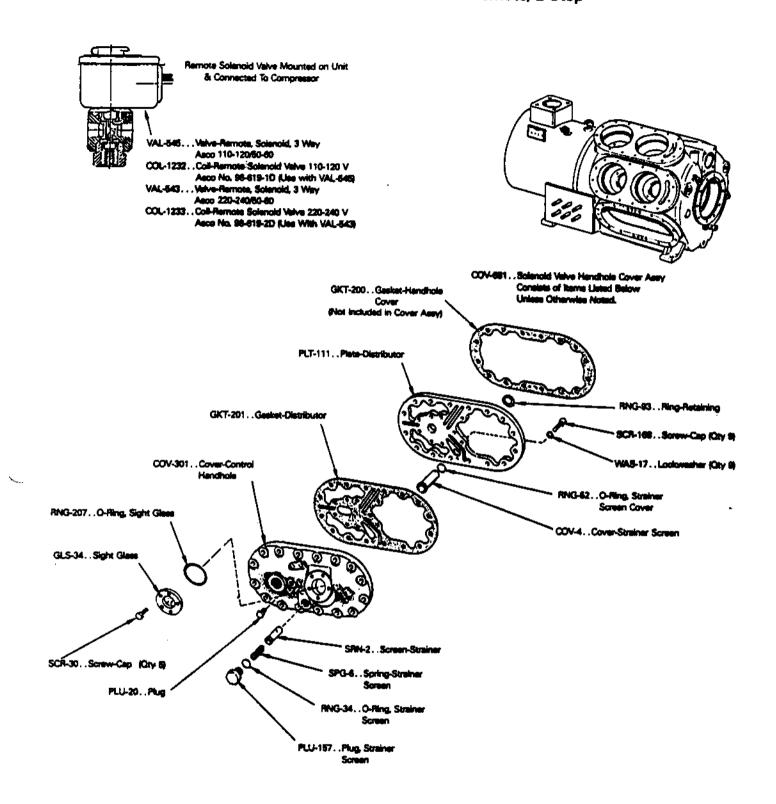
PST-17. Pieton & Connecting Rod Assy Consists Of:



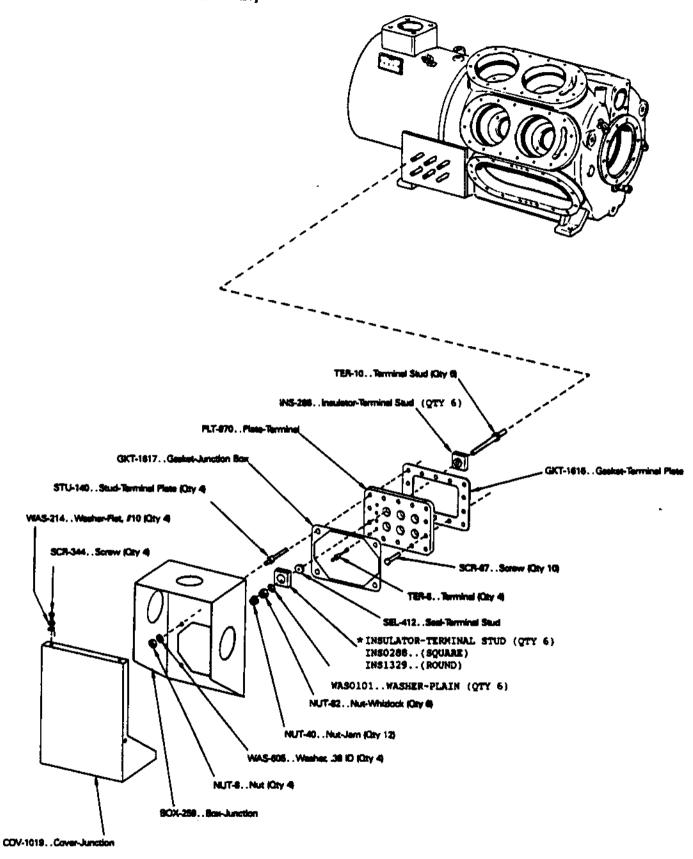
## Section 4 - Back Handhole Cover



## Section 5A - Control Handhole Cover-Solenoid Valve Remote, 2 Step



### Section 6 - Junction Box Assembly



<sup>\*</sup>CURRENT PRODUCTION USES ROUND TERMINAL STUD INSULATORS (INS1329) ON THE FRONT AND SQUARE INSULATORS (INS0288) ON THE BACK OF THE TERMINAL PLATE. EITHER ROUND (INS1329) OR SQUARE (INS0288) INSULATORS CAN BE USED FOR REPLACEMENTS ON THE FRONT ONLY. SQUARE INSULATORS (INS0288) MUST BE USED ON THE BACK.

PART NO.	DESCRIPTION OF PART	CEC	DEO	DT 4
COV0302	COVER-CONTROL HANDHOLE	SEC. 5B		RLS
COV0456	COVER-ELECTRIC HANDHOLE, 230 V. COMPLETE	5 <b>B</b>	1	
COV0457	COVER-ELECTRIC HANDHOLE, 230 V, COMPLETE COVER-ELECTRIC HANDHOLE, 115 V, COMPLETE	5B		
COV0560	COVER-SUCTION HANDHOLE ASSEMBLY	5	1	
COV0681	COVER-SOLENOID VALVE HANDHOLE ASSY	5 <b>A</b>	1	
COV1018	COVER-SUCTION	1	1	
COV1019	COVER-JUNCTION	6	1	
COV1181	ELECTRIC HANDHOLE COVER ASSEMBLY, 24V	5 <b>B</b>	_	
COV1182	ELECTRIC HANDGOLE COVER ASSEMBLY, 12 VDC	5 <b>B</b>	ī	
COV1457	ELECTRIC HANDHOLE COVER ASSEMBLY, 24 VDC	5B	1	
CSF0030	CRANKSHAFT W/ MAGNETIC PLUGS, FOR 6 CYLINDER	2	î	
CSF0031	CRANKSHAFT W/ MAGNETIC PLUGS, FOR 8 CYLINDER	2	ī	
ELL0002	ELBOW-FLARE	5/5B	ī	
ELL0157	ELBOW	1	ī	
FLG0109	FLANGE-CLOSURE, FOR 6 CYLINDER	ī	1	
FLG0110	FLANGE-CLOSURE, FOR 8 CYLINDER	ī	1	
FLG0111	FLANGE-CLOSURE	î	ī	
GKT0015	GASKET-DISCHARGE, FOR 6 CYLINDER	1	1	+
GKT0024		5	ī	<b>.</b>
GKT0029	GASKET-BELLOWS ADJUSTIVE, SUCTION CONTROL	5	ī	+
	HANDHOLE COVER	•	_	·
GKT0044	GASKET-DISCHARGE, FOR 8 CYLINDER	1	1	+
GKT0045	GASKET-SUCTION, FOR 6 & 8 CYLINDER	ī	1	+
GKT0199	GASKET-OIL PUMP	ī	1	+
GKT0200	GASKET-SUCTION, FOR 6 & 8 CYLINDER GASKET-OIL PUMP GASKET-HANDHOLE COVER	5-5B	1	+
GKT0200	GASKET-BACK HANDHOLE COVER	4	ī	+
GKT0201	GASKET-DISTRIBUTOR, HANDHOLE COVER	5/5A		+
GKT0202	GASKET-CYLINDER HEAD (QTY 1/2 PER CYLINDER)	3	AR	+
GKT0283	GASKET-DISTRIBUTOR, ELECTRIC HANDHOLE COVER	5 <b>B</b>	1	+
GKT1615	GASKET- SUCTION COVER	1	1	
GKT1616	GASKET-TERMINAL PLATE	6	1	
'GKT1617	GASKET-JUNCTION BOX	6	1	
GLS0034		5-5B	1	+
GRD0039	GUARD-PLATE, ELECTRIC HANDHOLE	5B	1	
HD0016	· -/	3	AR	
	CYLINDERS)			
HTR1566	HEATER-CRANKCASE, 110-230 V	4	1	+
INS0288	INSULATOR-TERMINAL STUD	6	6	
INS1329	INSULATOR-TERMINAL STUD (ROUND)	6	6	
KEY0026	CRANKSHAFT KEY	2	1	
KIT0141	KIT-OIL LINE, 6 CYLINDER	1	1	
KIT0142	KIT-OIL LINE, 8 CYLINDER	1	1	
KIT0180	KIT-CYLINDER, O-RING	3 <b>A</b>	AR	
KIT1370	KIT-COMPRESSOR GASKET & O-RING	2A	1	+
LNRO033	LINER-CYLINDER ASSEMBLY, WITHOUT UNLOADERS,	3A	AR	
	STANDARD LIFT VALVE			
LNR0034	LINER-CYLINDER ASSEMBLY, WITH UNLOADERS,	3 <b>A</b>	AR	
T ND0005	STANDARD LIFT VALVE			
LNRO035	LINER-CYLINDER ASSEMBLY, WITH UNLOADERS,	3 <b>A</b>	AR	
T NDOOSE	LOW LIFT VALVE			
LNRO036	LINER-CYLINDER	3 <b>A</b>	AR	

DADEL NO	D#4497774			
PART NO.	DESCRIPTION OF PART	SEC.	REQ.	RLS
KNGOOJO	O-RING, SOLENOID VALVE MOUNTING, ELECTRIC	5 <b>B</b>	9	+
	HANDHOLE COVER			
RNG0052	O-RING, STRAINER SCREEN COVER, SUCTION	5-5B	1	+
	CONTROL HANDHOLE COVER			
RNG0061	RING-CAPACITY CONTROL	5	1	+
RNG0065	O-RING, SUCTION VALVE PLATE	3 <b>A</b>		+
RNG0069	O-RING, BEARING HEAD MOTOR END & PUMP END	1/2	_	
RNG0077	PISTON RING KIT (QTY 1 PER CYLINDER)	•	_	+
RNG0085	RING-COMPRESSION FOR PISTON RING KIT	3	AR	+
RNG0086	RING-OIL FOR PISTON RING KIT	3	1	+
RNG0087		3	1	+
	RING-RETAINING, PISTON & CONNECTING ROD ASSY	3	2	+
RNG0088	RING-TAKE UP	ЗА	1	+
RNG0090	O-RING, UNLOADER SEAL RING	3 <b>A</b>	1	+
RNG0092	O-RING, UNLOADER PISTON	3 <b>A</b>	1	+
RNG0093	RING-RETAINING, HANDHOLE COVER	5-5B	1	+
RNG0099	O-RING, CYLINDER LINER TO UNLOADER	3 <b>A</b>	2	+
RNG0229	RING-RETAINING	3 <b>A</b>	1	+
RNG0128	O-RING, BEARING HEAD TO HOUSING	1	ī	+
RNG0130	O-RING, OIL PUMP COVER TO HOUSING	ī	ì	+
RNG0133		1		
RNG0207		_	1	+
RNG0905	RING-SCRAPER FOR PISTON RING KIT	5-5B	1	+
ROD0034		3	1	+
ROD0261	(X11 + LDN OLDINDER)	3	AR	
KOD0591	ROD-CONNECTING (UNDERSIZED) (QTY 1 PER	3	AR	+
	CYLINDER)			
	*UNDERSIZED ROD. USED ON REMANUFACTURED			
	COMPRESSORS. ROD MUST BE USED IN			
	CONJUNCTION WITH UNDERSIZED CRANKSHAFT.			
	SEE SERVICE BULLETINHCOM-SB-59.			
SCR0003	SCREW, 5/8 - 11 X 2, HEX CAP	1		
SCR0004	SCREW-CAP, HEX HEAD, 9/16-12 X 2, BACK	1	4	
	HANDHOLE COVER	4	32	
SCR0030	SCREW-CAP, HEX HD., 1/4-20 X 3/4, FOR COV0300	c	_	
SCR0031	SCREW-CAP, HEX HD., 5/16-18 X 7/8, ELECTRIC	2-28		
	HANDHOLE COVER	5B	3	
SCR0046		_		
DCKOO40	SCREW-CAP, 12 PT. HD., 3/8-24 X 1 3/4	5	7	
0000045	SUCTION CONTROL HANDHOLE COVER ASSEMBLY			
SCR0047	SCREW-BELLOW ADJUSTING, SUCTION CONTROL	5	1	
	HANDHOLE COVER			
SCR0060	SCREW, FOR 8 CYLINDER DISCHARGE SERVICE VALVE		4	
SCR0061	SCREW, FOR 6 & 8 CYLINDER SUCTION SERVICE		4	
	VALVE		•	
SCR0067	SCREW	6	10	
SCR0070	SCREW-CAP, .38-16 X 2.00	3	AR	
SCR0121	SCREW	_		
SCR0160	SCREW-CAP, HEX HD., 7/16-14 X 1 1/2	1	4	
SCR0168		_1	10	
SCKOTOO	SCREW-CAP, 12 PT. HD., 3/8-24 X 1, HANDHOLE	5-5B	AR	
5000100	COVER			
SCR0189	SCREW-CAP, HEX., 9/16-12 X 3, CYLINDER HEAD	3	AR	
	QTY 8 PER CYLINDER			
SCR0202	SCREW-SOLENOID VALVE	SB	6	
SCR0210	SCREW, SUCTION CONTROL HANDHOLE COVER	5	1	
SCR0215	SCREW-MOTOR MOUNTING	1	1	
SCR0344	SCREW			
SCR0346	SCREW-CAP	6	4	
SCR0582		1	16	
DOROJOZ	SCREW FOR 6 CYLINDER DISCHARGE VALVE		4	

PART NO. WASO004 WASO017 WASO100 WASO101 WASO110 WASO214 WASO605	DESCRIPTION OF PART LOCKWASHER, 3/4" LOCKWASHER, 3/8" WASHER-RETAINING WASHER-PLAIN LOCKWASHER WASHER-FLAT, #10 WASHER, .38 ID	SEC. 2 5 2 6 1 6	REQ. 1 9 1 6 9 4	RLS +
WAS0605 WAS0707	WASHER, .38 ID WASHER-FLAT, .697 OD X .375 ID X .09 TK	6	-	·

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