



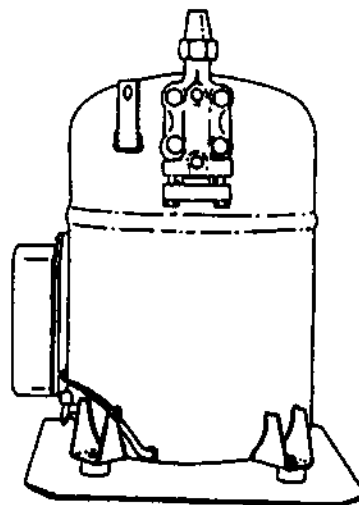
HERMETIC RECIPROCATING COMPRESSOR

HCOM-UP-91F

Unit Parts

Model(s)

"K" Compressor
4 and 6 Cylinder
20, 25 & 30 Ton Units
"A thru K" Design Sequence



Library	Unit Parts Literature
Product Section	Refrigeration
Product	Compressor-Condensing Unit
Model	HCOM "K"
Literature Type	Unit Parts
Sequence	91F
Date	December, 1990
File No.	UP-RF-COM-HCOM-UP-91F-1290
Supersedes	HCOM-UP-91E-489

Literature Change:
Added New Model Number

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 illustrations 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 list identifies known standardized parts and other parts changed by standardization. The installation and servicing of this equipment should be done by qualified, experienced technicians.

OLD MODEL NUMBER DESCRIPTION

C R H K 200 C 4 C A
1 2 3 4 5,6,7 8 9 10 11

1st Digit

Unit

C = Compressor

2nd Digit

Type of Compressor

R = Reciprocating Piston

3rd Digit

Type of Drive

H = Hermetic

4th Digit

Development Sequence

K = 1750 RPM Vertical Steel Shell

5th, 6th & 7th Digit

Nominal Size Development & Number of Cylinders

Development Sequence	Refrigerant	Cu. in. Rev.	Number of Cylinders
200 = K	R-22	50.61	4
250 = K	R-22	64.50	6
300 = K	R-22	75.91	6

8th Digit

Electrical Characteristics

Nominal	Min. Volts	Max. Volts
A = 200/60/3	180	220
C = 480/60/3	416	508
D = 575/60/3	520	635
G = 400/50/3	343	466
W = 230/60/3	208	254
T = 400/50/3	343	456
= 460/60/3	416	508

9th Digit

Number Of Cylinders That Unload

2 = Two Cylinder

4 = Four Cylinder

10th Digit

Design Sequence

A

B

C

Etc.

11th Digit

Control Voltage

A = 115 VAC

NEW MODEL NUMBER DESCRIPTION

C	R	H	K-2	0	0	K-2	*	A	0
1	2	3	4	5,6,7	8	9	10	11	12

1ST DIGIT
POSITIVE DISPLACEMENT
REFRIGERANT COMPRESSOR

U = 200-50/60-3 180 220
V = 346-50-3 308 381

2ND DIGIT
R = RECIPROCATING

W = 230-60-3 208 254

3RD DIGIT
H = HERMETIC, INTERNAL MOTOR

X = 380-60-3 342 418

4TH DIGIT
K = 1750 RPM VERTICAL WELDED STEEL SHELL

Y = 200-50-3 180 220

5TH, 6TH & 7TH DIGIT
NOMINAL COMPRESSOR SIZE
SUCTION VALVE LIFT
REFRIGERANT COMPATABILITY

Z = 363-50-3 327 399

* = CAST IRON HERMETIC WITHOUT MOTOR (EPINAL)

9TH DIGIT
COMPRESSOR UNLOADING
NUMBER OF CYLINDERS THAT UNLOAD

COMPRESSOR MODEL	DIGITS 5, 6, 7 SIZE	REFRIGERANT	CU. IN. PER REV.	NO. CYL.
K	200	R-22	50.61	4
	250	R-22	64.50	6
	300	R-22	75.91	6

0 = NO UNLOADING

1 = MODELS E, F, K, R

2 = MODELS E, F, K, R

3 = MODELS E, F, K, R

4 = MODELS E, F, K, R

8TH DIGIT

NOMINAL	COMPRESSOR MOTOR FREQUENCY AND VOLTAGE	
	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
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
N = 115-60-1	109	128
O = OPEN		
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		

10TH DIGIT
DESIGN SEQUENCE - FACTORY ASSIGNED DIGIT

A = FIRST
B = SECOND
C = THIRD
ETC.

NOTE: REMANUFACTURED COMPRESSOR WILL HAVE
"R" AS THE 10TH DIGIT

11TH DIGIT
UNLOADER CONTROL AND
UNLOADING METHOD

0 = NO UNLOADING

A = 115 VAC, ELECTRIC, MODELS E, F, K, R, U

B = 230 VAC, ELECTRIC, MODELS E, F, K, R, U

C = 12 VDC, ELECTRIC, MODELS E, F, K, R

E = 32 VDC, ELECTRIC, MODELS E, F, K, R

F = 64 VDC, ELECTRIC, MODELS E, F, K, R

G = 187 VDC, ELECTRIC, MODELS E, F, K, R

H = 24 VAC, ELECTRIC, MODELS E, F, K, R

S = SPECIAL

12TH DIGIT
BASIC COMPRESSOR VARIATION

0 = STANDARD COMPRESSOR

Suction Service Valve
VAL-8...1.62", 20 Ton
VAL-9...2.12", 25 or 30 Ton

Screw-Suction Service Valve Mounting
SCR-13...20 Ton (Qty 4)
SCR-582...25 or 30 Ton (Qty 4)

HTR-1103...Heater-Crankcase, 120V, 150W

VAL-979...Valve-Oil Drain

GKT-1275...Gasket-Junction Box Cover

COV-712...Cover-Junction Box

SRA-120...Strainer-High Pressure Line

WAS-456...Washer-Junction Box (Qty 7)
SCR-525...Screw-Junction Box (Qty 7)

GKT-1274...Gasket-Terminal Plate

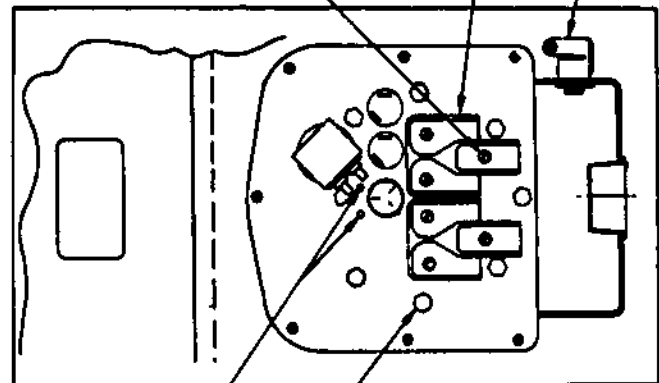
GLS-77...Glass-Sight

Valve & Gasket-Discharge Service
VAL-1957...1.12, 20 Ton Unit
VAL-1958...1.38, 25 & 30 Ton Unit
SEL-310...Gasket-Discharge Service Valve

GRP-27...Connector-Crankcase Heater
Wiring to Junction Box

INS-240...Insulator-Hermatic Terminal (Qty 2)

SCR-370...Screw-Hermatic Terminal
Insulator Mounting (Qty 6)



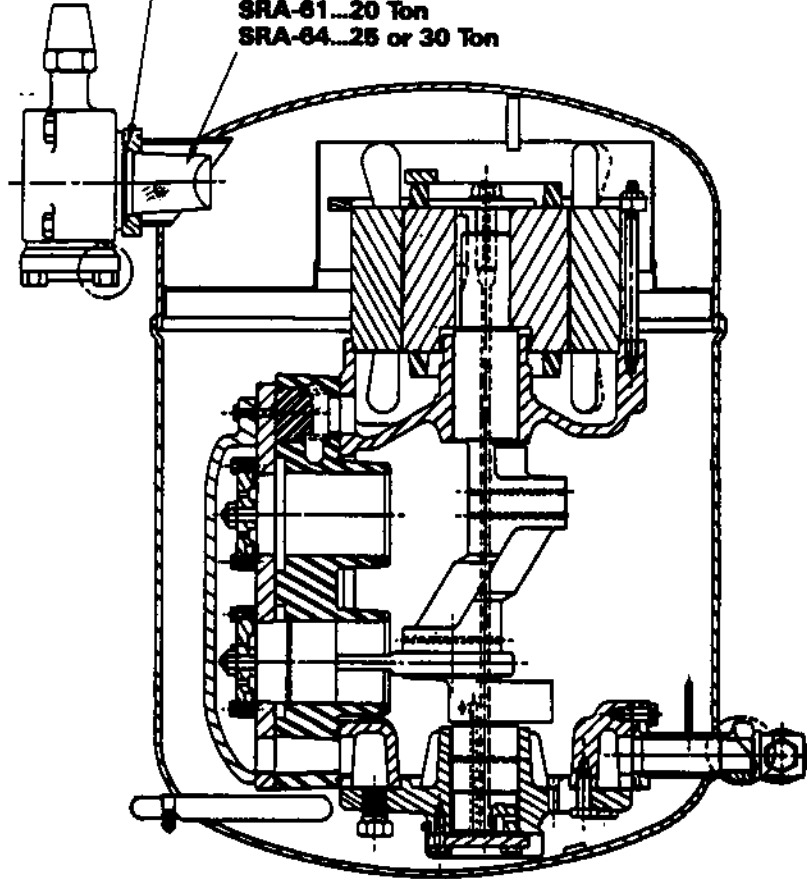
SCR-173...Screw-Terminal Plate
Mounting (Qty 11)

SCR-590...Screw-Terminal Plate Mounting (Qty 2)

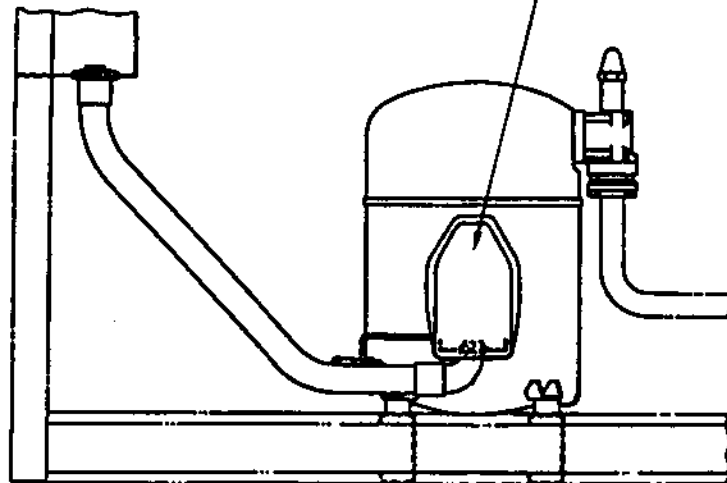
Junction Box with Cover Removed

Gasket-Suction Service Valve
GKT-14...20 Ton
GKT-15...25 or 30 Ton

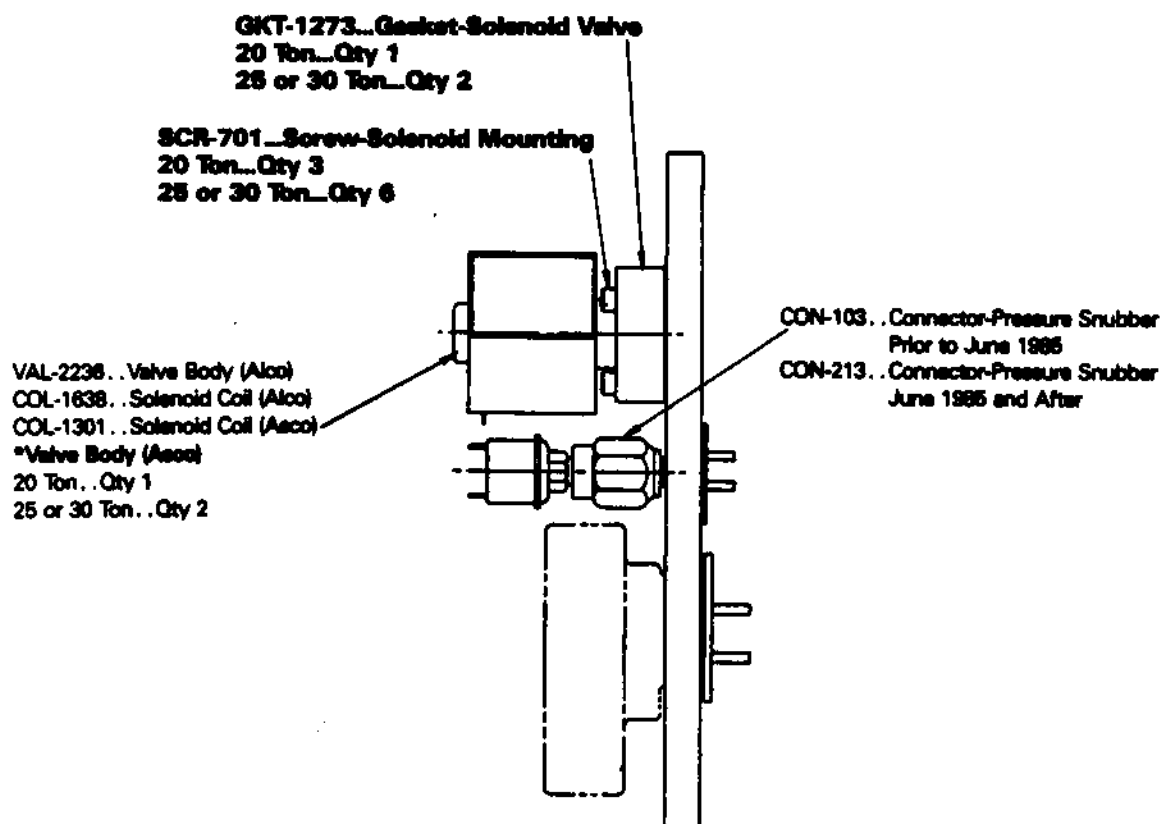
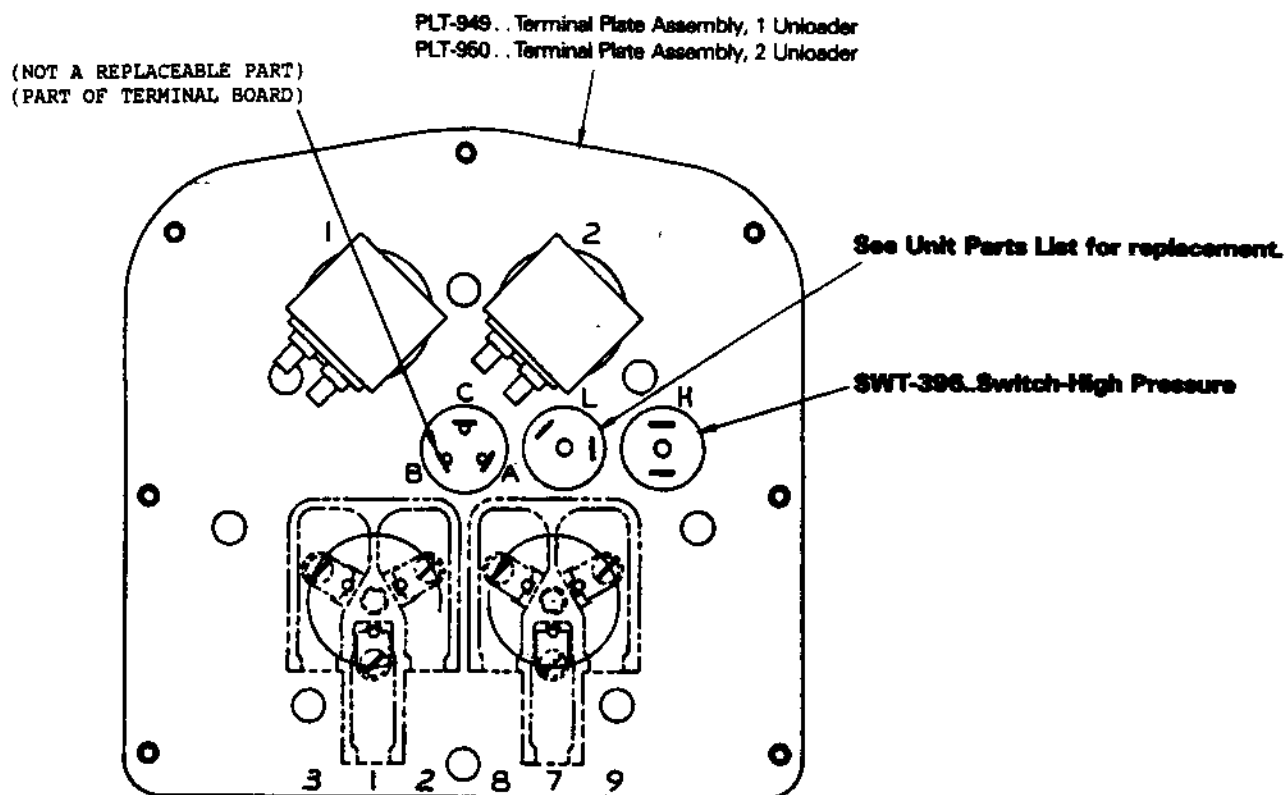
Strainer-Suction Gas
SRA-61...20 Ton
SRA-64...25 or 30 Ton



Busc Bar
BAR-81...1.42 x 1.48 x .064 o.d.
BAR-82...1.94 x 4.28 x .064 o.d.
BAR-83...2.03 x 2.84 x .064 o.d.



Terminal Plate Assembly



*Asco Valve Body is no longer available from vendor. On first time changeout order KIT-1044 (Consists of Aico Valve Body & Solenoid Coil)

Parts Index

THIS IS A LISTING OF THE PART NUMBERS CONTAINED IN THE PARTS LIST AND IS IN ALPHA-NUMERIC ORDER TO MAKE PARTS IDENTIFICATION EASIER. THIS INDEX PROVIDES PART NUMBER, DESCRIPTION OF THE PART, QUANTITY AND WHETHER THE PART IS RECOMMENDED FOR LOCAL STOCK.

PART NO.	DESCRIPTION OF THE PART	NO. REQ.	RLS
BAR-81	BUSS BAR, 1.43 X 1.48 X .064 CU.	1	
BAR-82	BUSS BAR, 1.94 X 4.25 X .064 CU.	1	
BAR-83	BUSS BAR, 2.03 X 2.84 X .064 CU.	1	
COL-1301	COIL-SOLENOID, 115 VOLT, 50-60 CYCLE, 3 PHASE (ASCO)	1	+
COL-1638	COIL-SOLENOID, 115 VOLT, 50-60 CYCLE (ALCO)	1	+
CON-103	CONNECTOR-PRESSURE SNUBBER, .12 FPT, PRIOR TO JUNE 1986	1	
CON-213	CONNECTOR-PRESSURE SNUBBER, JUNE 1986 AND AFTER	1	
COV-712	COVER-JUNCTION BOX		1
GKT-14	GASKET-SUCTION SERVICE VALVE, 20 TON	1	+
GKT-15	GASKET-SUCTION SERVICE VALVE, 25 OR 30 TON	1	+
GKT-1273	GASKET-SOLENOID VALVE 20 TON....QTY 1 25 OR 30 TON....QTY 2	AR	+
GKT-1274	GASKET-TERMINAL PLATE	1	+
GKT-1275	GASKET-JUNCTION BOX COVER	1	+
GLS-77	GLASS-SIGHT	1	+
GRP-27	CONNECTOR-CRANKCASE HEATER WIRING TO JUNCTION BOX	1	
HTR-1103	HEATER-CRANKCASE, 120/80/1, 150 WATTS	1	+
INS-240	INSULATOR-HERMETIC TERMINAL	2	
KIT-1044	KIT-SOLENOID VALVE, ALCO 20 TON....QTY 1 25 OR 30 TON....QTY 2	AR	+
PLT-949	PLATE-TERMINAL ASSEMBLY, 1 UNLOADER	1	+
PLT-960	PLATE-TERMINAL ASSEMBLY, 2 UNLOADER	1	+
SCR-13	SCREW-SUCTION SERVICE VALVE MOUNTING, .50-13 X 3.25	4	
SCR-173	SCREW-TERMINAL PLATE MOUNTING, 7/16-14 X	1	11
SCR-370	SCREW-HERMETIC TERMINAL INSULATOR MOUNTING, 10-32X.50	6	
SCR-525	SCREW-JUNCTION BOX COVER MOUNTING, 1/4-20 X	1/2	7
SCR-582	SCREW-SUCTION SERVICE VALVE MOUNTING, 25 OR 30 TON	4	
SCR-590	SCREW-TERMINAL PLATE MOUNTING (OBTAIN LOCALLY)	2	
SCR-701	SCREW-SOLENOID MOUNTING, 10-32 X 1.00 20 TON....QTY 3 25 OR 30 TON....QTY 6	AR	
SEL-310	GASKET-DISCHARGE SERVICE VALVE	1	+
SRA-81	STRAINER-SUCTION GAS, 20 TON	1	
SRA-84	STRAINER-SUCTION GAS, 25 OR 30 TON	1	
SRA-120	STRAINER-HIGH PRESSURE LINE, .375 OD X .250 LG	1	
SWT-398	SWITCH-HIGH PRESSURE, OPEN 406 PSI, CLOSED 300 PSI	1	+
VAL-8	VALVE-SUCTION SERVICE, 1.62 ODS, 20 TON	1	+
VAL-9	VALVE-SUCTION SERVICE, 2.125 ODS, 25 OR 30 TON	1	+
VAL-879	VALVE-OIL DRAIN, 1/4 NPTF X 1/4 FFL	1	+
VAL-1967	VALVE-DISCHARGE SERVICE, 1.12 ODS X 1.75, 20 TON	1	+
VAL-1968	VALVE-DISCHARGE SERVICE, 1.38 X 1.75, 25 OR 30 TON	1	+
VAL-2236	VALVE-SOLENOID BODY (ALCO)	1	+
WAS-466	LOCKWASHER-JUNCTION BOX COVER MOUNTING, .25 ID X .48 OD	7	