

HERMETIC AND OPEN TURBOPAK CENTRIFUGAL LIQUID CHILLERS

RENEWAL PARTS

Supersedes: Form 160.44-RP1 (Sect. 1) Coded 1182 1085 Form 160.44-RP1 (Sect. 1)

TURBOPAK PARTS

MODEL HT/OT A1 A1 B1 THRU HT/OT F3 F3 C2 (STYLE A & B)

MODEL YT G1 G1 E1 THRU YT L3 L3 E3 (STYLE A)

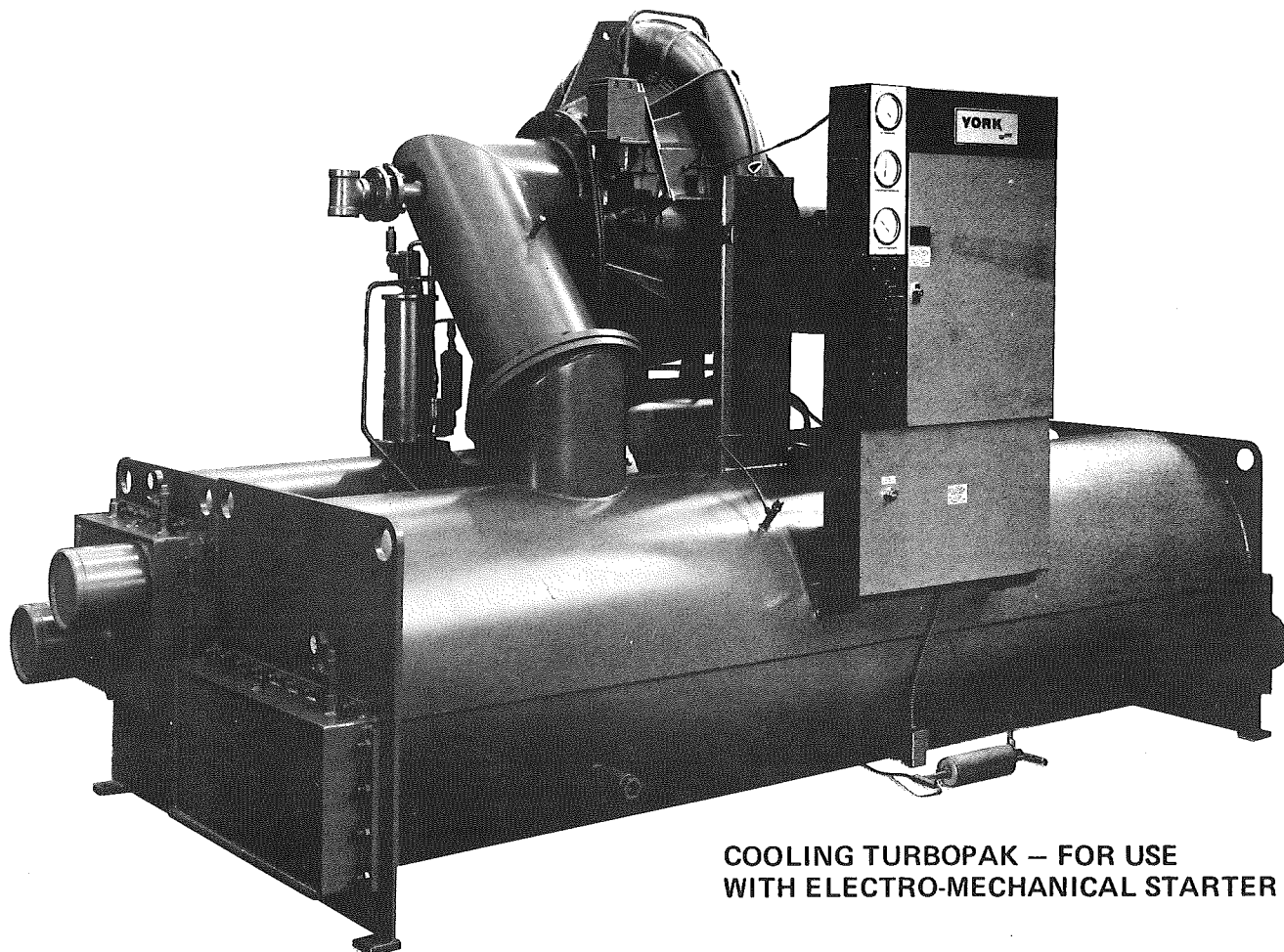
COOLING

MODEL HT/OT A1 M1 B1 THRU HT/OT F3 S3 C2 (STYLE A & B)

MODEL YT G1 T1 E1 THRU YT L3 X3 E3 (STYLE A)

HEAT RECOVERY

150 THRU 750 TONS



COOLING TURBOPAK – FOR USE
WITH ELECTRO-MECHANICAL STARTER

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COMPRESSOR AND RELATED PARTS ..	Model MTG/LTG 67, 76, 85 and 95 – 160.44-RP1 (Section 2)
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	Model YTH 108, 120 and 126 – 160.44-RP2 (Section 1)
	Model YTJ 67, 76, 85, 95 – 160.45-RP1.1 (Section 1)
ELECTRONIC CONTROL CENTER	160.44-RP1 (Section 3)
SOLID STATE STARTER	160.44-RP1 (Section 4)

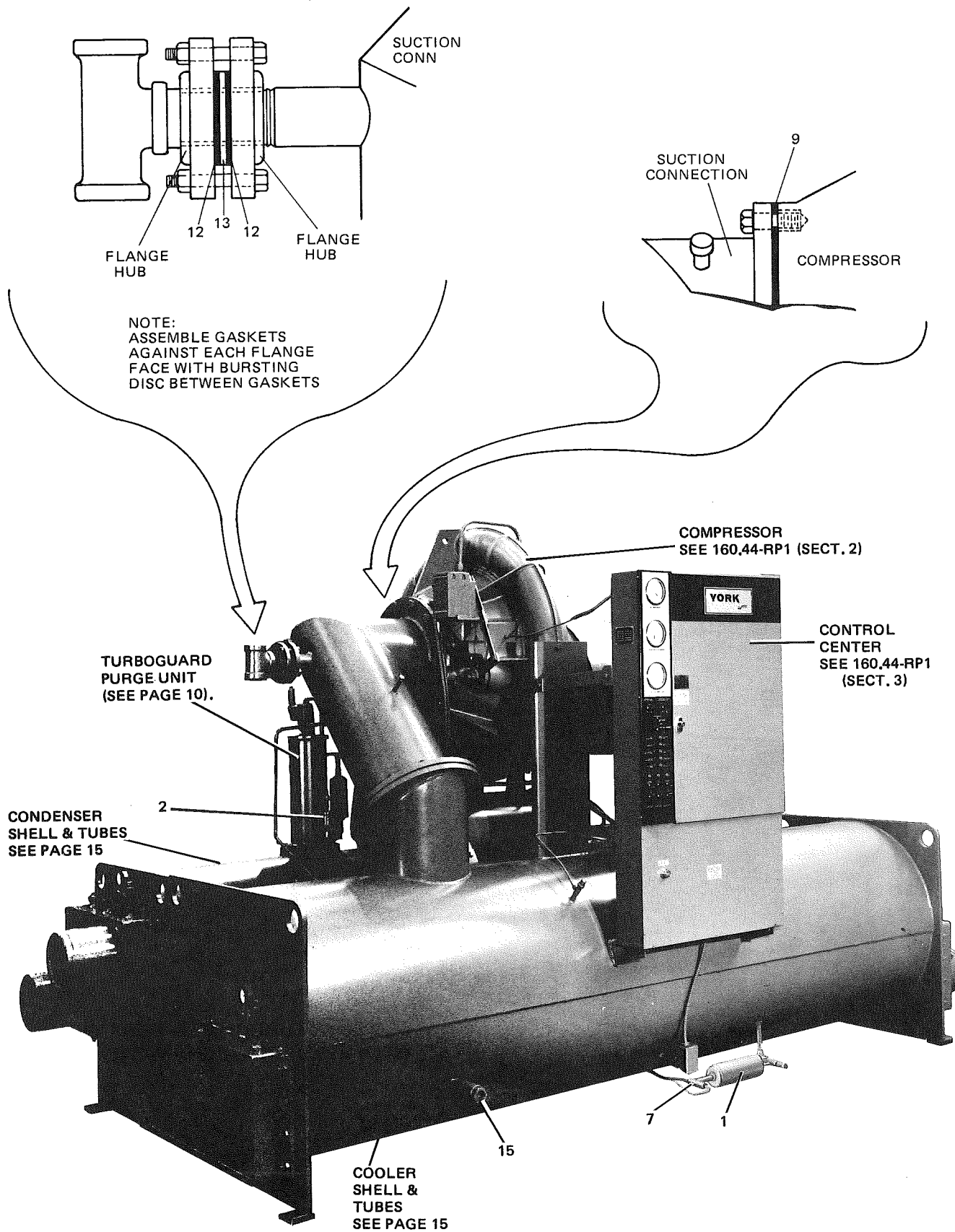


FIG. 1 - HT TURBOPAK - FRONT VIEW

SOLID STATE
STARTER
SEE 160.44-RP1 (SECT. 4)

FORM 160.44-RP1 (Sect. 1)

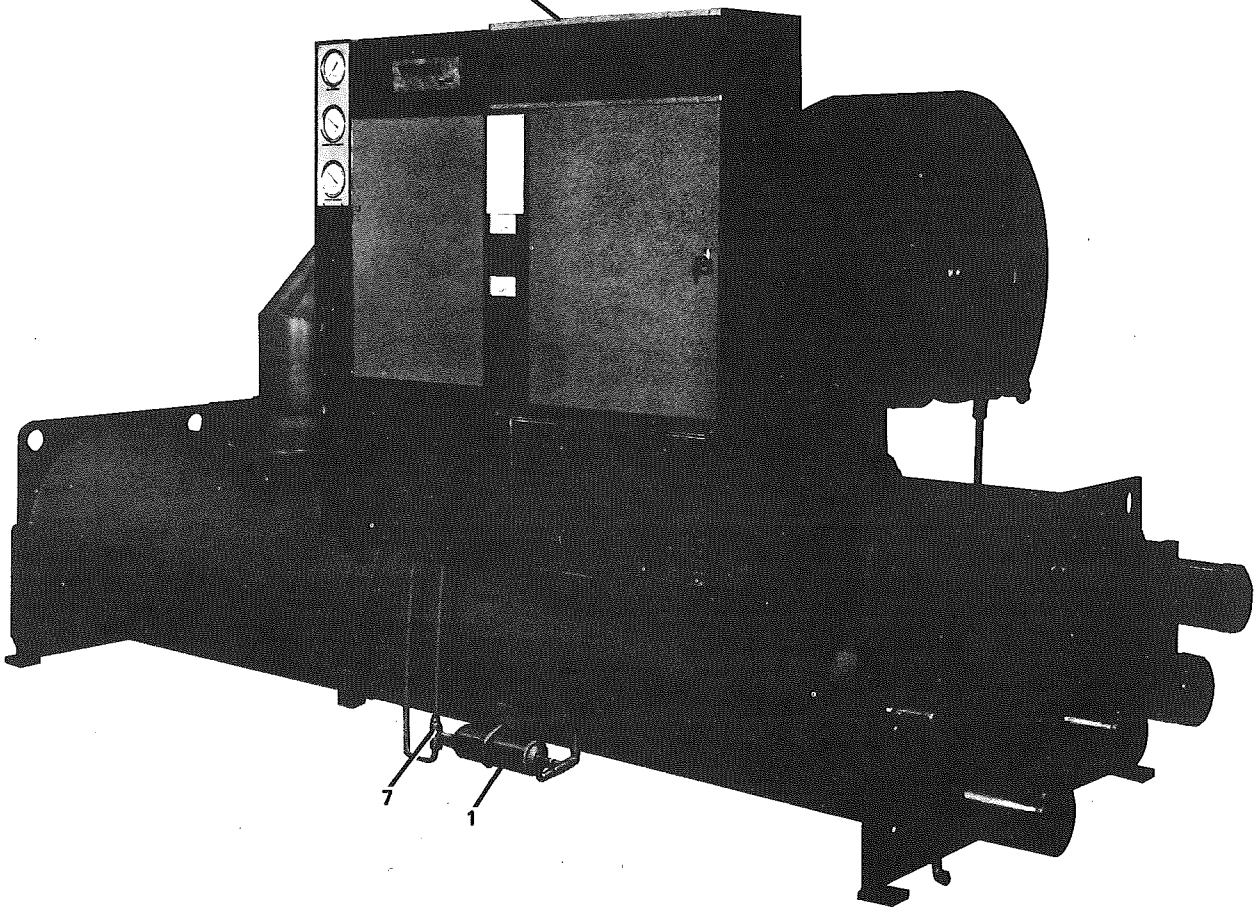


FIG. 2 —HT TURBOPAK — FRONT VIEW COMPRESSOR END.

BASIC UNIT PARTS

ITEM	DESCRIPTION	PART NO.	QUAN.	FIG.
1	Dehydrator (Oil Eductor)	026-14777-007	1	1
2	Strainer (Purge Unit)	029-16764	1	1
3	Filter Refrigerant (Hermetic Comp'r. only)	026-15405	1	7
4	Cartridge for Refrigerant Filter ¹ (Hermetic Comp'r. only)	026-15761	1	7
5	Filter Oil	026-21982	1	1
6	Cartridge for Oil Filter ¹	026-11225	1	1
7	Oil Eductor	364-18241	1	2
8	Discharge Connection Gasket (8" Flange) Comp. Model	070-12208	1	6
	(10" Flange) Comp. Model	070-10630		
	(12" Flange - Model YT) Comp. Model	070-10633		
9	Suction Connection Gasket (12" Flange) Comp. Model	028-08778-002	2	1
	(14" Flange) Comp. Model	028-08778-003		
	(20" Flange - Model YT) Comp. Model	028-08778-004		
10	Plate Orifice (Refrigerant Drain from Compressor Motor HT only)	066-82762	1	7
11	Gasket, 3-1/8 O.D. x 2-1/2 I.D. Comp'r. and Oil Reservoir Flanges	066-84786	1	7
12	Gasket, 4" O.D. x 2-5/8 I.D. Bursting Disc	066-83601	2	1
13	Disc, Bursting	026-09353 ²	1	1
14	Gasket, 4-7/8 x 2-7/8 I.D. x 1/8 Thk.	066-23477	2	6
15	Sight Plug	026-16556	1	1
16	Valve, 3/4 NPTE x 3/4 FLA	022-03195	1	1

¹Order one Gasket Kit, Part Number 028-08312, with every refrigerant filter cartridge and oil filter cartridge.

²Order Bursting Disc Kit 367-25263.

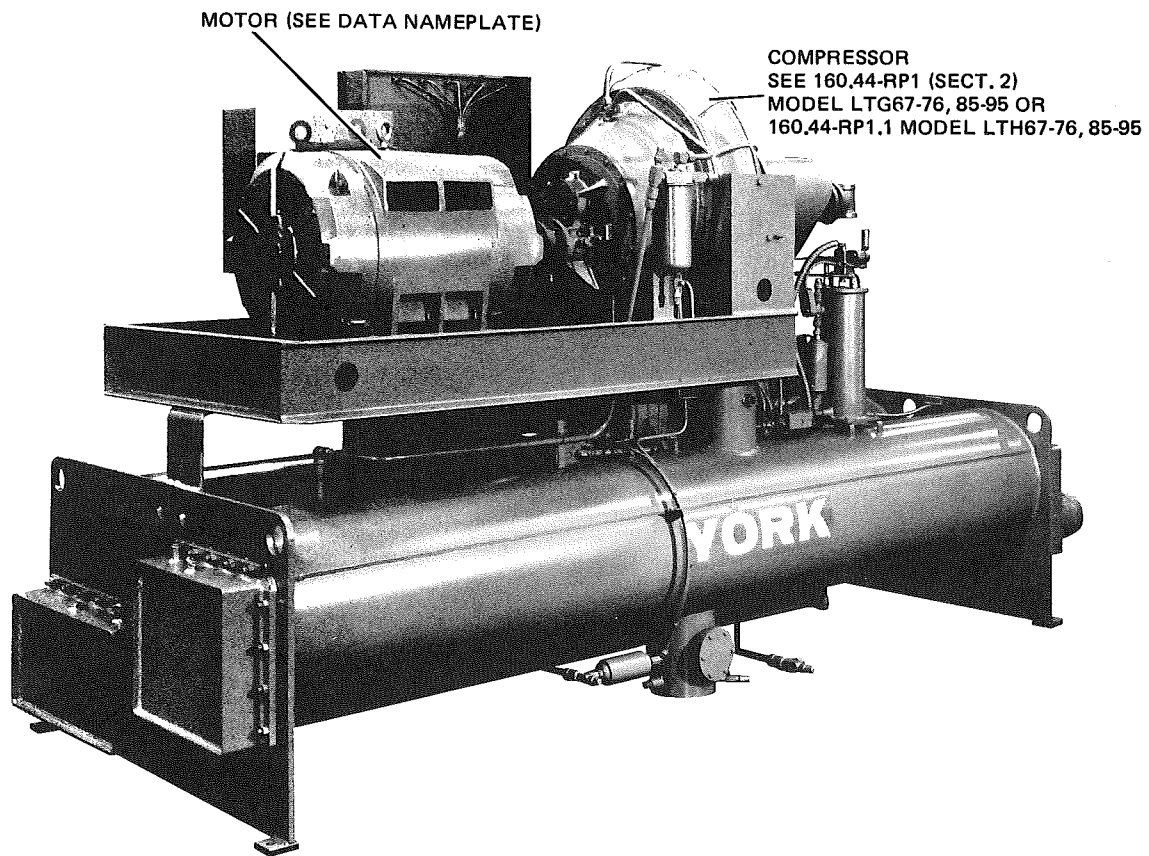


FIG. 4 — OT TURBOPAK — REAR VIEW

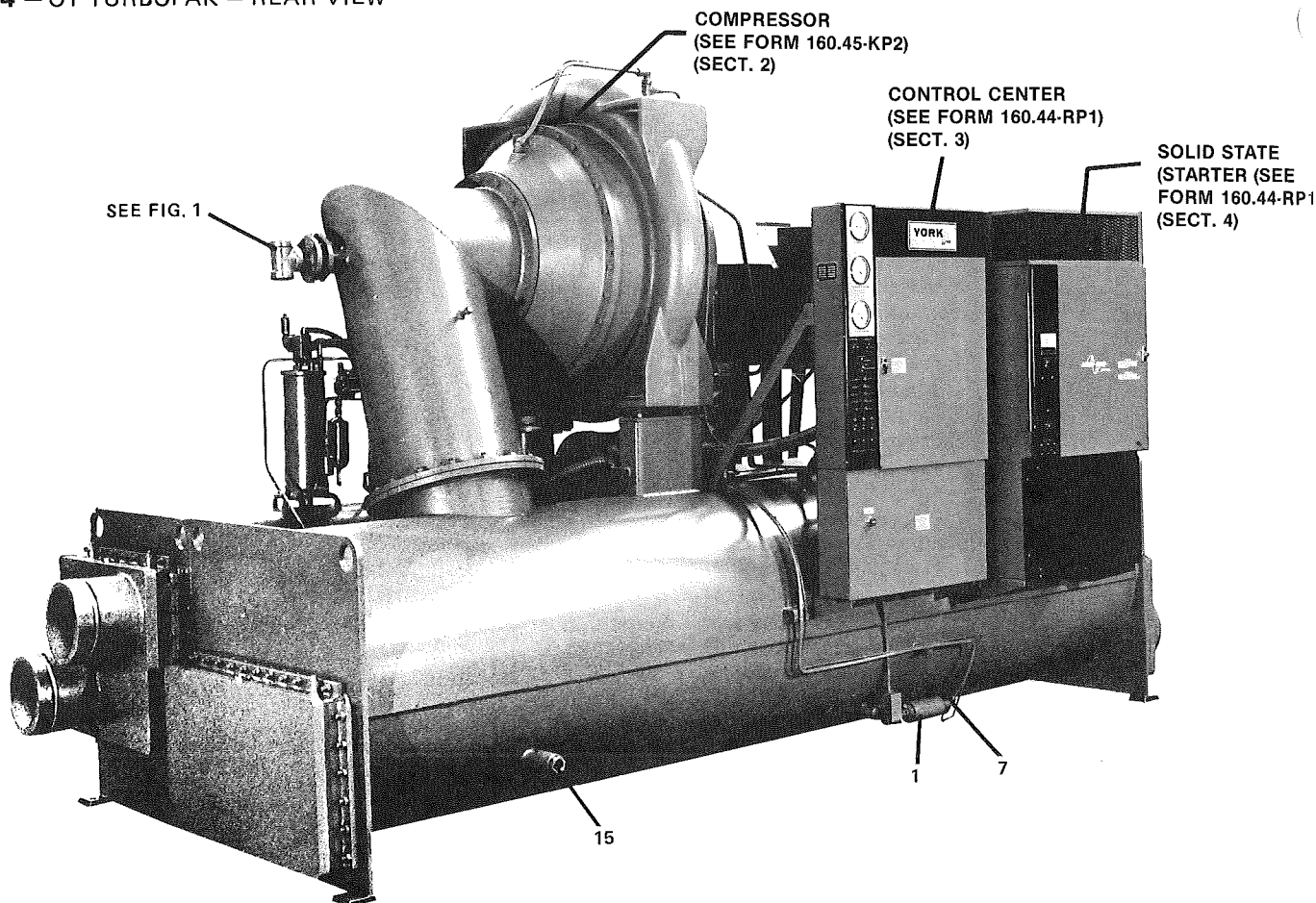


FIG. 5 — YT TURBOPAK — FRONT VIEW

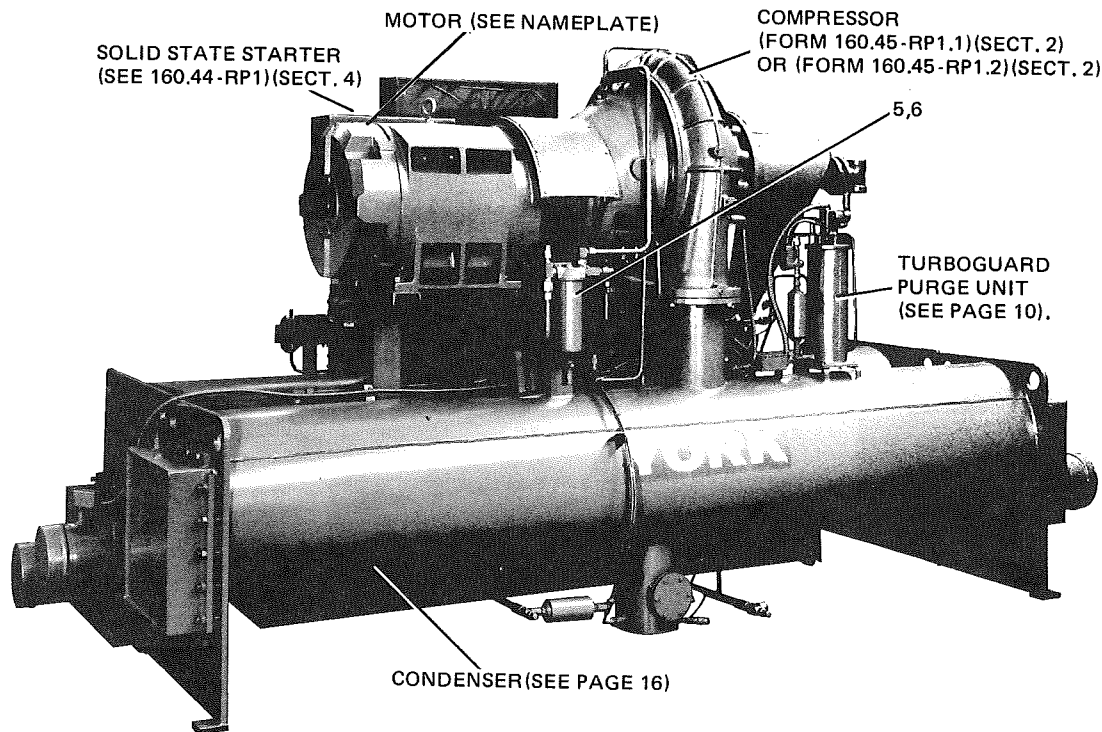


FIG. 5 (Cont'd.) — YT TURBOPAK — REAR VIEW

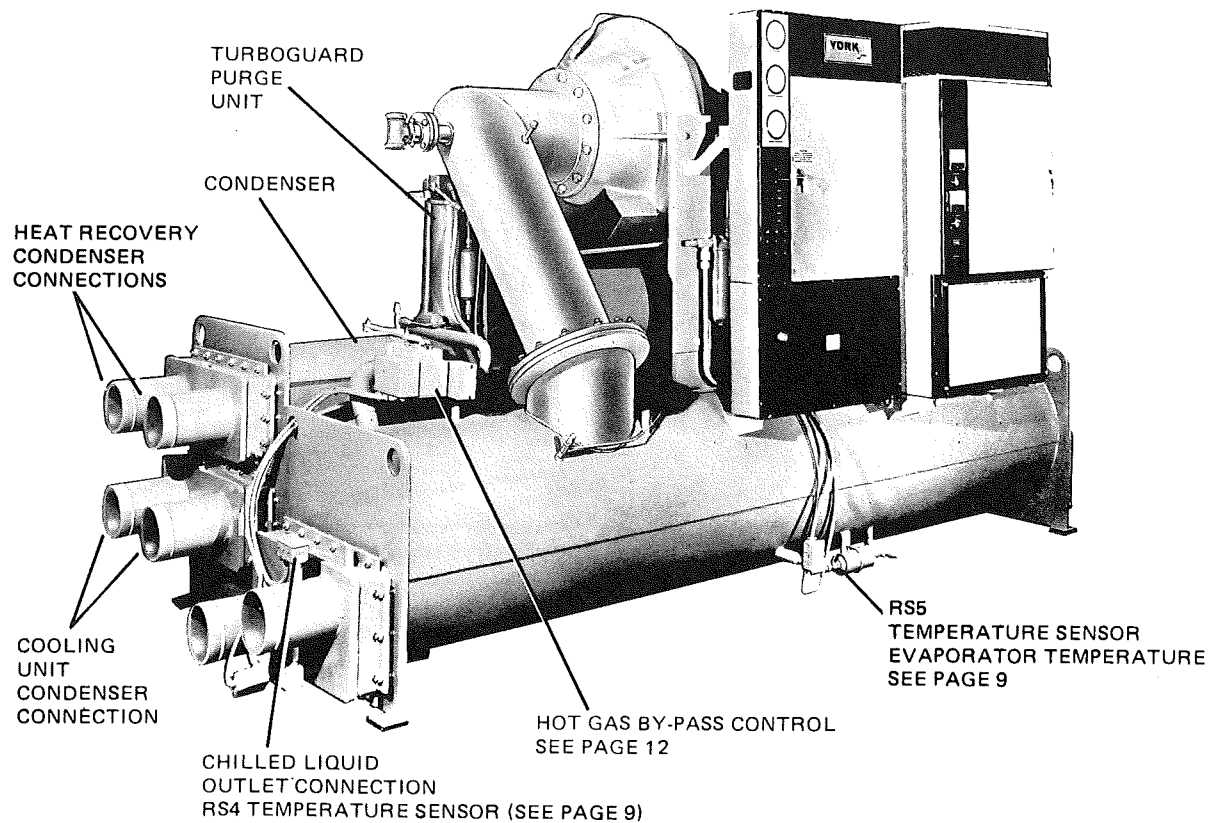


FIG. 6 — HEAT RECOVERY TURBOPAK

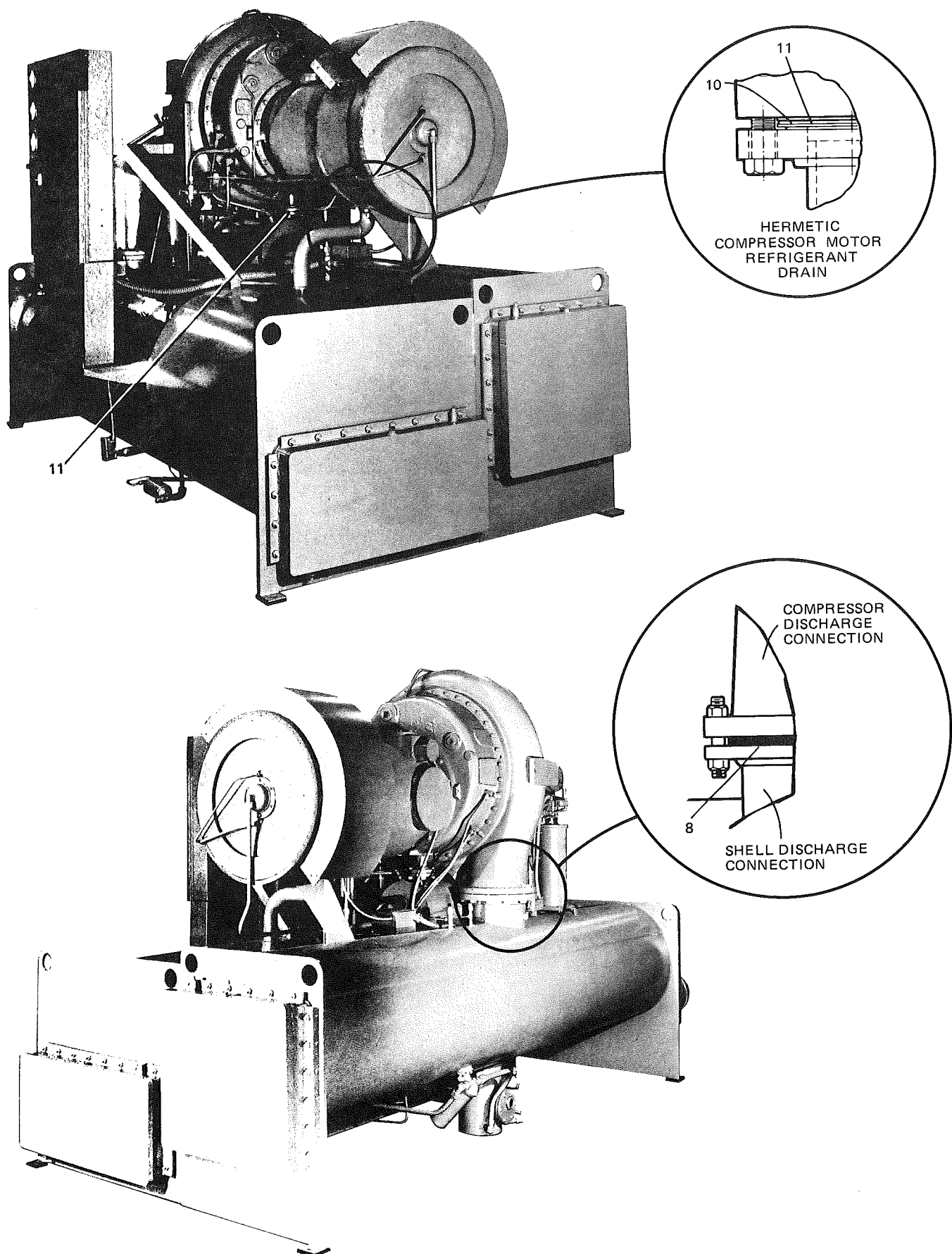
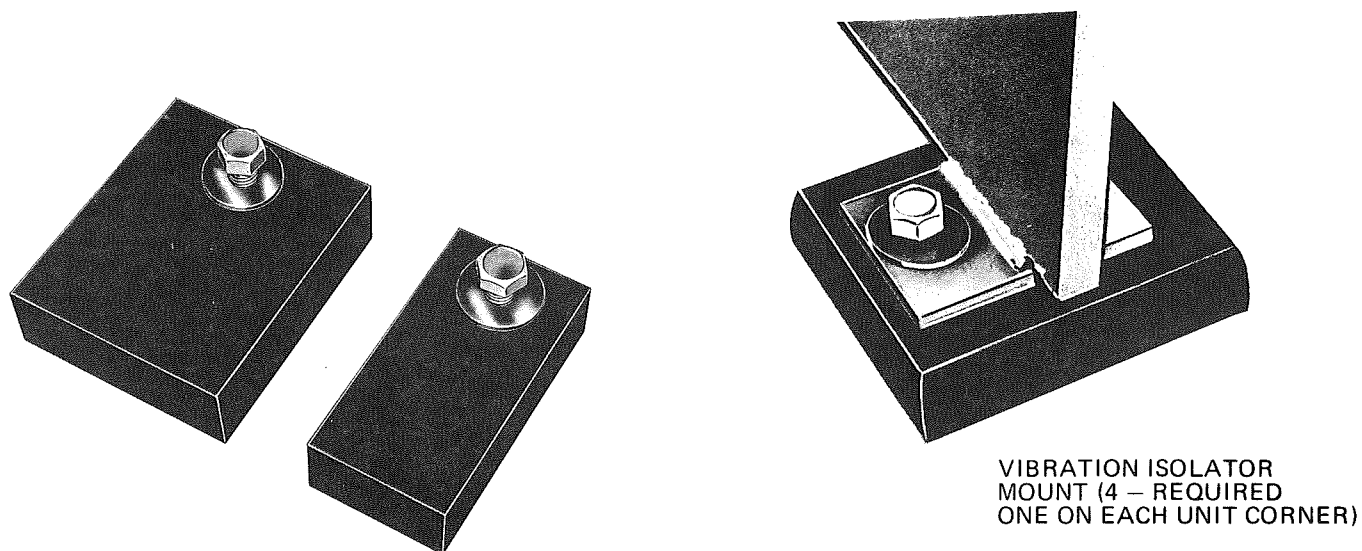


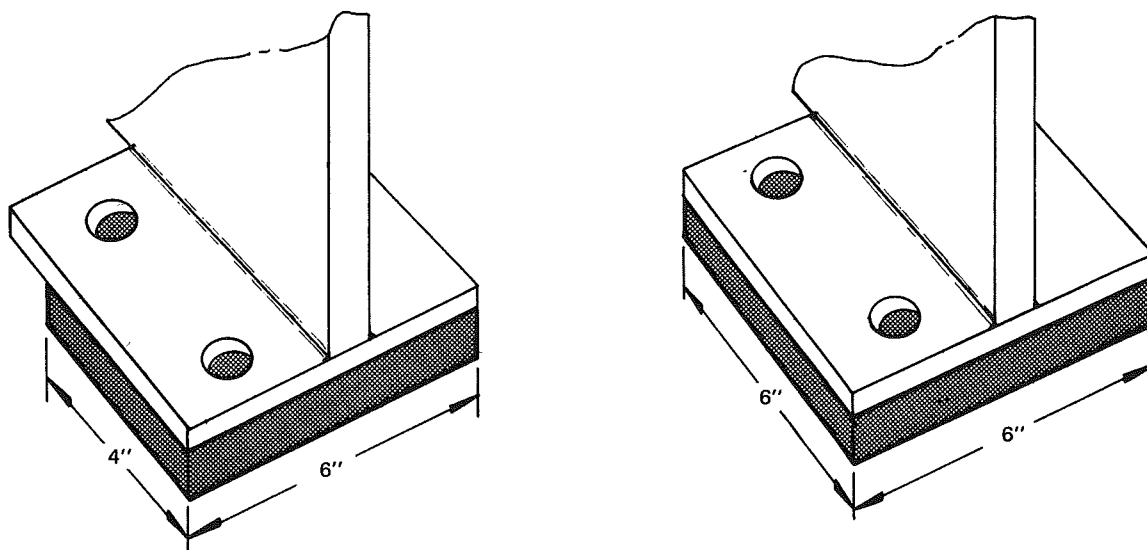
FIG. 7 — HT TURBOPAK — FRONT COMPRESSOR END AND REAR COMPRESSOR END

ISOLATORS NEOPRENE



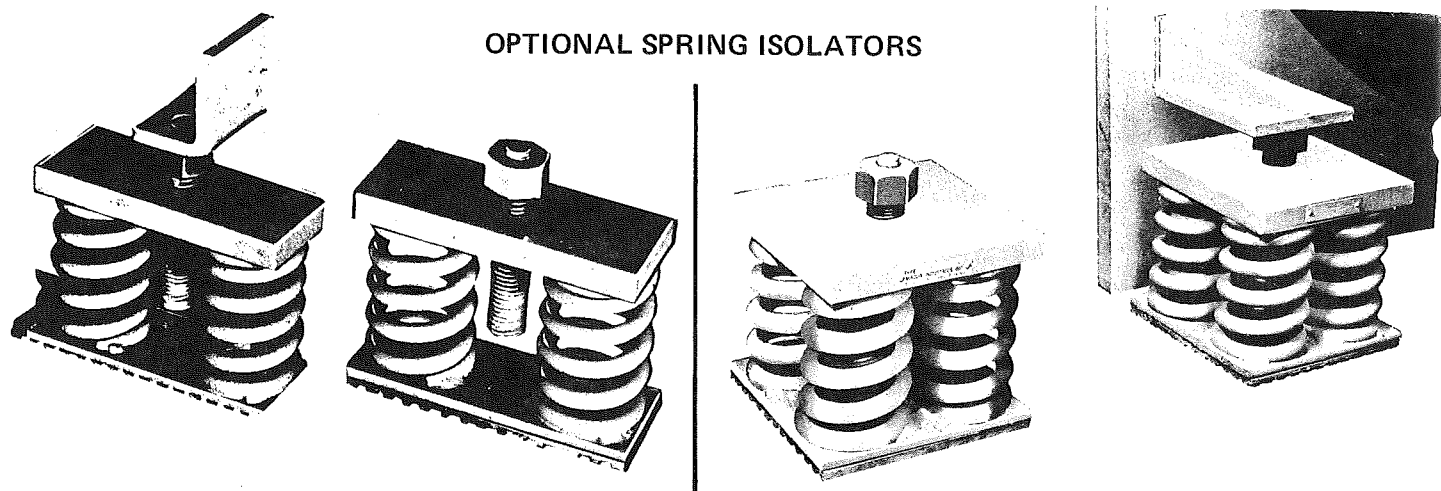
TURBOPAK OPERATING WEIGHT	ISOLATOR PART NO.
UP TO 16,700 LBS.	028-09254
16,701 TO 33,455 LBS.	028-09253

FIG. 8 — STANDARD VIBRATION ISOLATOR MOUNTS (MODELS HT/OT A1 A1 B1 THRU F3 S3 C2)



TURBOPAK OPERATING WEIGHT	ISOLATOR PART NO.
UP TO 28,835 LBS.	028-10518
28,836 TO 53,530 LBS.	028-10519

FIG. 9 — MODEL YT G1 G1 E1 THRU L3 X3 E3

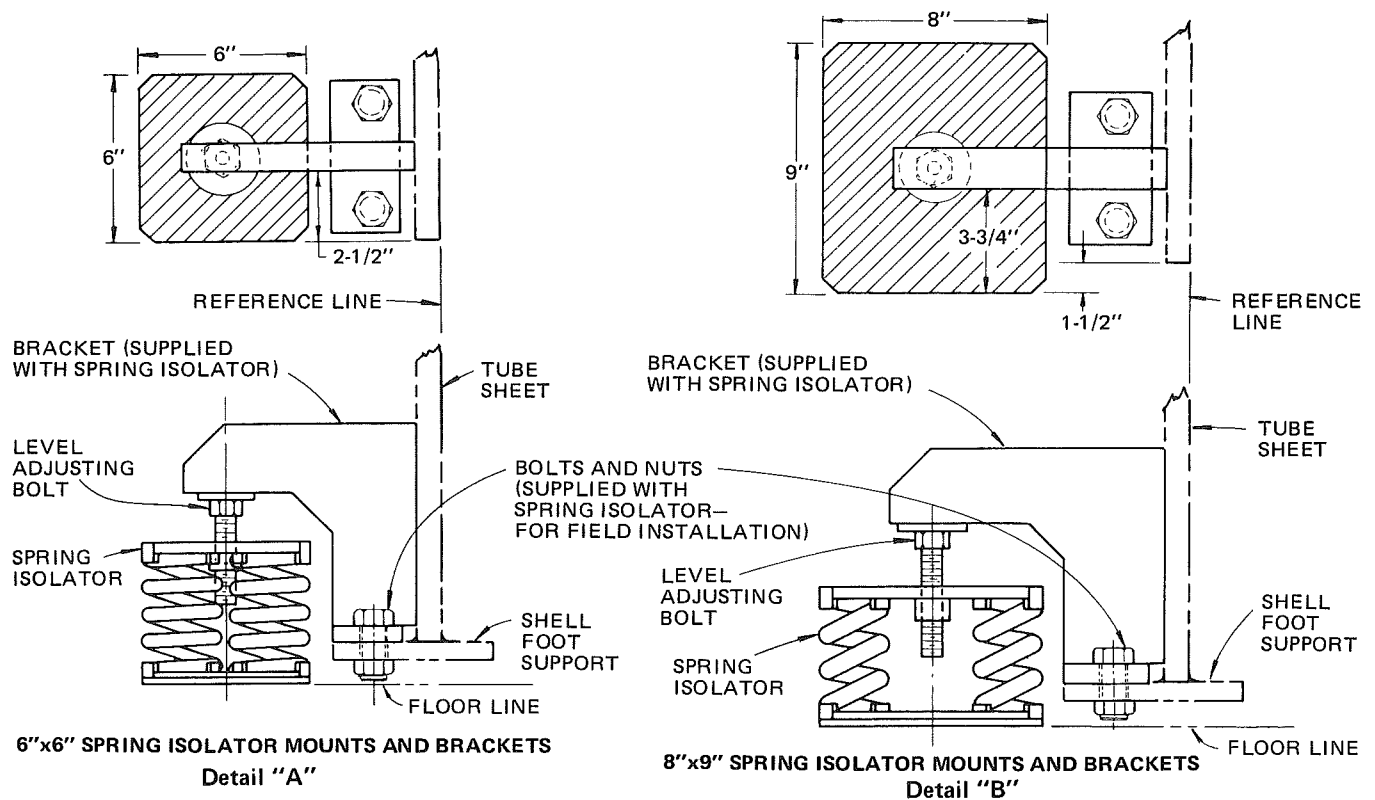


OPTIONAL SPRING ISOLATORS

SPRING ISOLATORS (4 PER UNIT)

SYSTEM OPERATING WT. LBS.	PART NO.
UP TO 8000	029-11412
8001 - 9891	029-11413
9892 - 12182	029-11414
12183 - 15273	029-11415
15274 - 18273	029-11416
18274 - 22909	029-11451
22910 - 24364	029-11579
24365 - 30545	029-10801

FIG. 10 – SPRING ISOLATORS (MODELS HT/OT A1 A1 B1 THRU F3 S3 C2)

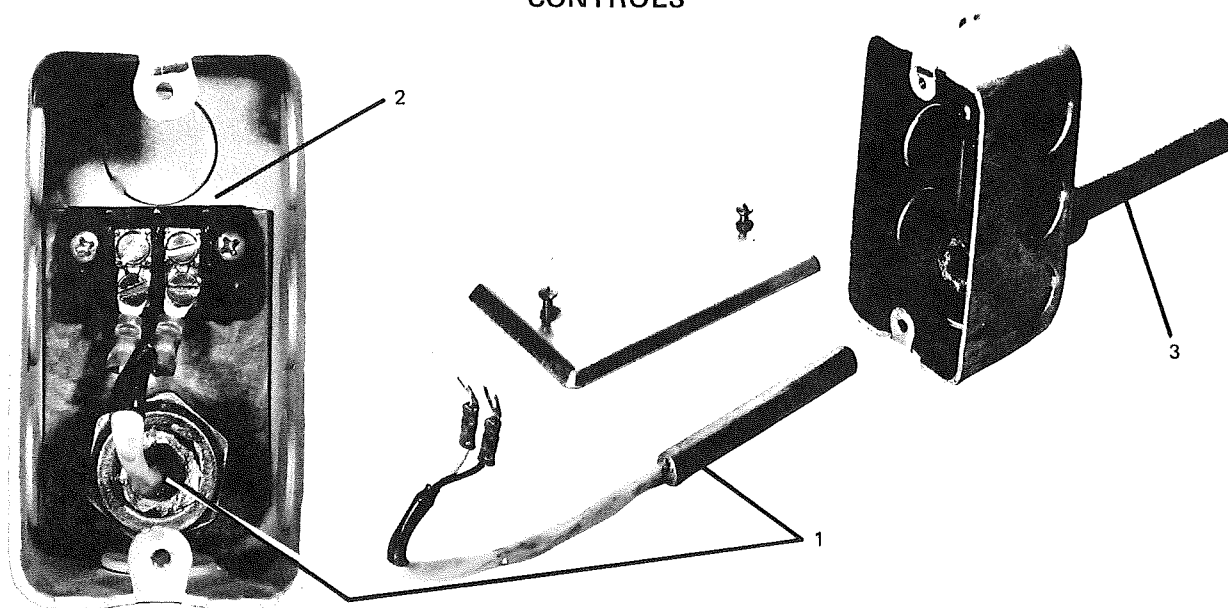


SPRING ISOLATORS (4 PER UNIT)

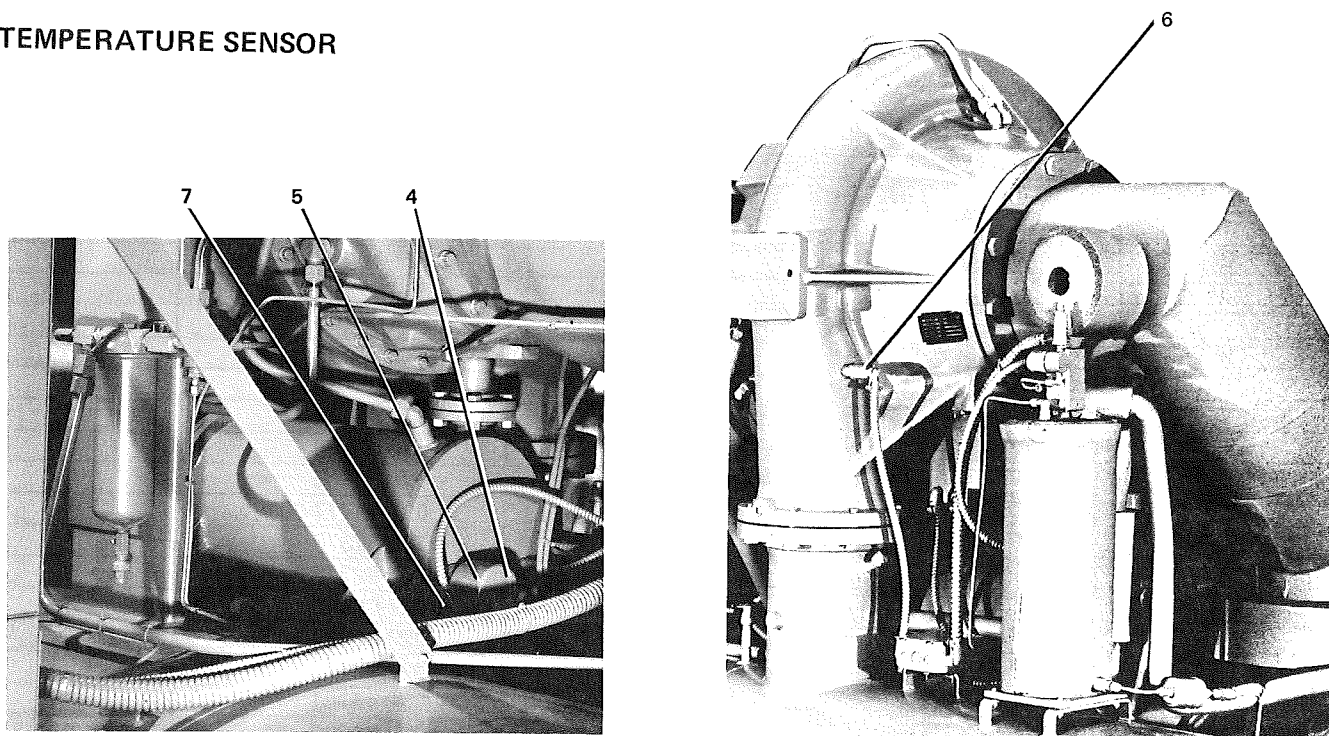
SYSTEM OPERATING WT. LBS.	PART NO.
UP TO 19636 – Detail "A"	029-18113-001
19637 - 24363 – Detail "A"	029-18113-002
24364 - 30545 – Detail "A"	029-18113-003
30546 - 36545 – Detail "B"	029-18114-001
36546 - 45818 – Detail "B"	029-18114-002

FIG. 11 – MODEL YT G1 G1 E1 THRU L3 X3 C3

CONTROLS

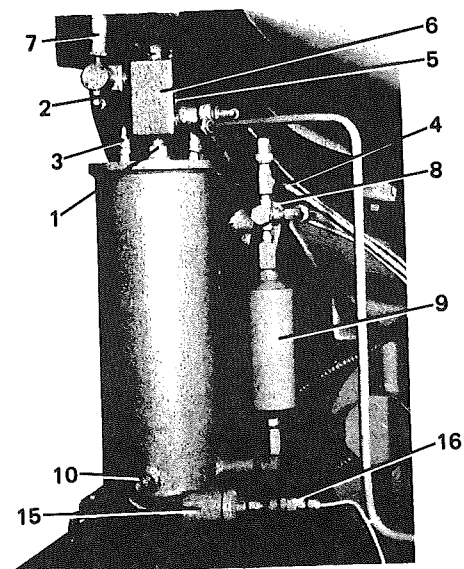


TEMPERATURE SENSOR

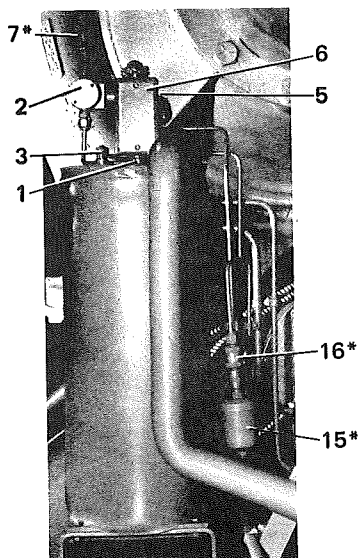


CONTROLS

ITEM	DESCRIPTION	PART NO.	QUAN. COOLING	QUAN. HEAT RECOVERY
1	Temperature Sensor	025-20798	2	3
2	Terminal Block	025-21124	2	3
3	Well Bulb (Including Item 2)	371-00366	2	3
4	HOT Temperature Control	025-15381-003	1	1
5	Oil Heater	025-09445	1	1
6	HDT Temperature Control	025-15381-002	1	1
7	Oil Heater, T-Stat		1	1



OLD UNIT



NEW UNIT

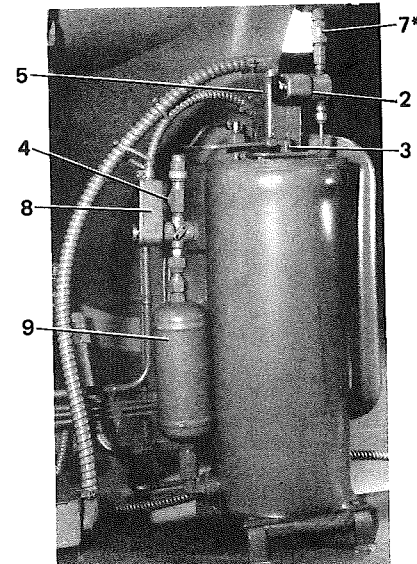
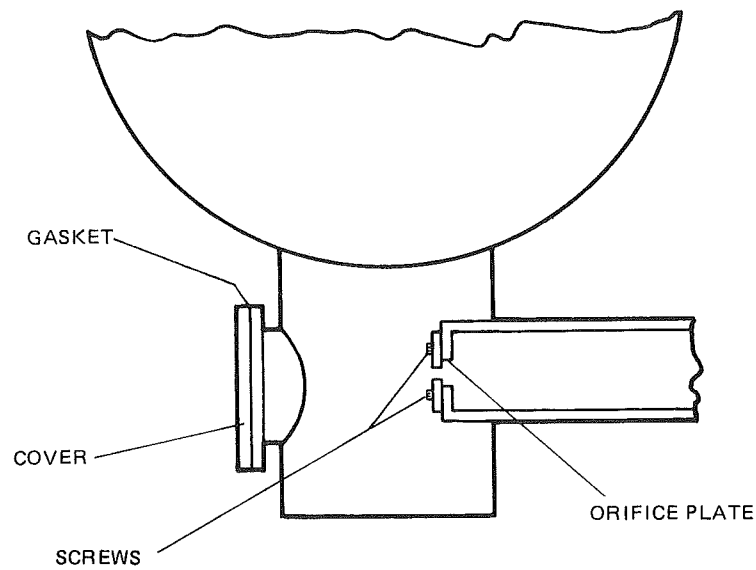


FIG. 12 — PURGE UNIT

ITEM	DESCRIPTION	PART NO.	QUAN.
	TURBO GUARD PURGE UNIT	366-81916*	
1	Float Switch	024-16306	1
2	Valve, Solenoid	025-16479	1
3	Cage, Float	366-82372	1
4	Valve Stop Angle 3/8 FLA x 1/4 NPT1	022-04158	1
5	Box, Conduit	025-01145	1
6	Cover, Conduit Box	025-01732	1
7	Valve Check (1/4 NPTE x 1/4 NPTE)	022-03571	1
7*	Valve Check (1/4 FLA x 1/4 FLA)	022-03902	1
8	Valve Solenoid 3-way - 1/4 NPT1	025-16988	1
9	Dehydrator	026-14777-007	1
10	Gas Distributor	366-82370	1
11	Not Shown—Liquid Line Orifice	066-82377	1
12*	Solid Conn. 1/4 FLA x 1/4 FLA	023-09040	1
13*	Half Union 1/4 NPT x 1/4 FLA	023-00927	1
14*	Foul Gas Filter Drier	026-28173	1
15*	Strainer	029-16764	1
16*	Check Valve	022-03902	1

NOTE: If it is necessary to replace the shell, order the complete unit which includes all parts.

*Due to a design change the following purge exhaust parts should be ordered. Check unit for proper arrangement.



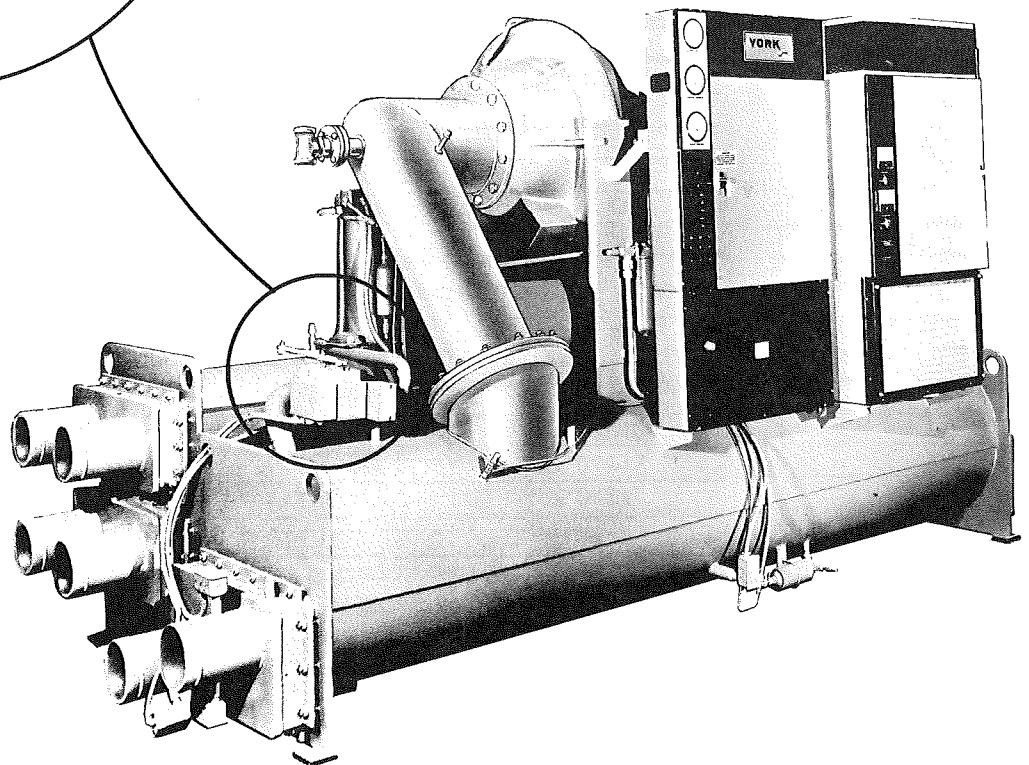
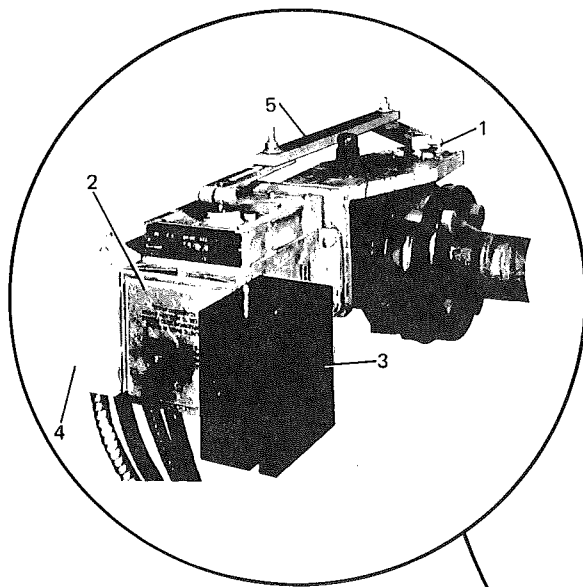
FLOW CONTROL CHAMBER

CODE	ORIFICE DIA.	PART NO.
A	19/32	066-81976-001
B	11/16	066-81976-002
C	25/32	066-81976-003
D	7/8	066-81976-004
E	1	066-81976-005
F	1-1/8	066-81976-006
G	1-1/4	066-81976-007
H	1-3/8	066-81976-008
I	1-1/2	066-87487-001
J	1-5/8	066-87487-002
K	1-7/8	066-87487-003
L	2-1/8	066-87487-004
M	2-3/8	066-87487-005
GASKET		066-81943

SWITCH FLOW CONTROL

DESCRIPTION	PART NO.
150DWP - Vapor Proof Model FS8V	024-15793
300 DWP - Vapor Proof Model FS7V	024-12144

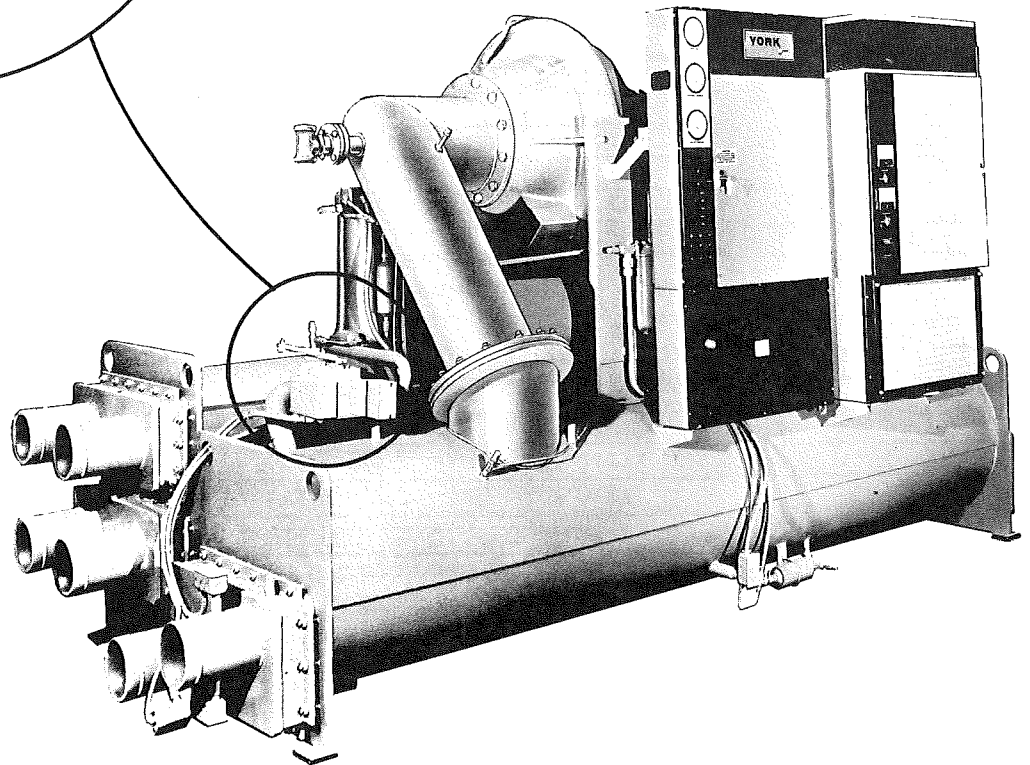
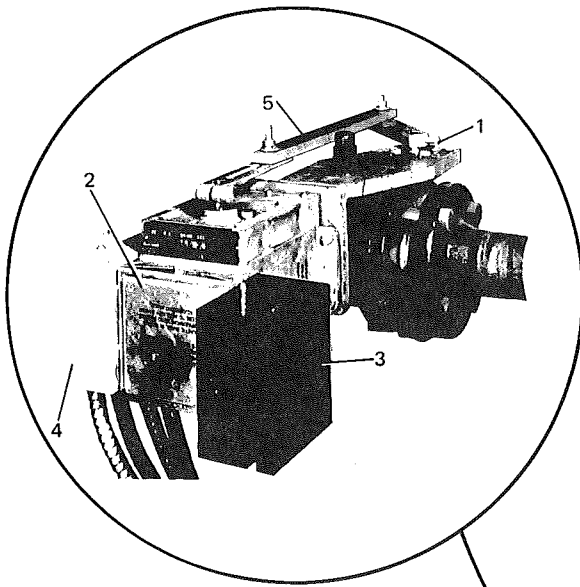
HEAT RECOVERY



HOT GAS BY PASS CONTROL

ITEM	DESCRIPTION	PART NO.	QUAN.
1	Valve, Hot Gas By-Pass - 2-1/2" 3" (Model YT) 4"	022-05235 022-05236 022-05237	1
2	Motor, Actuator	025-17521	1
3	Control, Actuator Motor	025-20799	1
4	Control, Hot Gas	031-00239	1
5	Crank-Arm	025-17073	1

HEAT RECOVERY



HOT GAS BY PASS CONTROL

ITEM	DESCRIPTION	PART NO.	QUAN.
1	Valve, Hot Gas By-Pass - 2-1/2" 3" (Model YT) 4"	022-05235 022-05236 022-05237	1
2	Motor, Actuator	025-17521	1
3	Control, Actuator Motor	025-20799	1
4	Control, Hot Gas	031-00239	1
5	Crank-Arm	025-17073	1

COMPOUNDS AND INSULATION TAPE

DESCRIPTION	QUAN.	PART NO.
Compound, Heat Conductive (For Thermometer Wells)	4 Oz. Can	013-00898
Thermal Insulation Tape — 1/8" x 2" (Insulating Motor Terminals)	30 Ft. Roll	025-14931

WATER STRAINER (STANDARD HEADS)

COOLER CODE	PASS	NOZZLE SIZE (IN)	PART NO.
A1, A2, B1, B2	1	8	029-12949
C1, C2, C3, G1, G3	1	10	029-12950
D1, D2, D3, H1, H3	1	12	029-12951
E1, E2, E3, F1, F2, F3, J1, J3, K3	1	14	029-14727
A1, A2, B1, B2	2	6	029-12948
C1, C2, C3, D1, D2, D3, G1, G3, H1, H3	2	8	029-12949
E1, E2, E3, F1, F2, F3, J1, J3, K1, K3	2	10	029-12950
A1, A2	3	4	029-13286
B1, B2, C1, C2, C3, D1, D2, D3, G1, G3, H1, H3	3	6	029-12948
E1, E2, E3, F1, F3, J1, J3, K1, K3	3	8	029-12949
L1, L3	1	16	029-14811
L1, L3	2	12	029-12951
L1, L3	3	10	029-12950

WATER STRAINER (MARINE WATER BOXES) (STANDARD TURBOPAK ONLY)

G1, G3, H1, H3, J1, J3, K1, K3	1	10	029-12950
L1, L2	1	12	029-12951
G1, G3, H1, H3	2	8	029-12949
J1, J3, K1, K3	2	10	029-12950
L1, L3	2	12	029-12951
G1, G3, H1, H3	3	6	029-12948
J1, J3, K1, K3	3	8	029-12949
L1, L3	3	10	029-12950

TOUCH-UP PAINTS — SPRAY CANS

DESCRIPTION	PART NO.
Caribbean Blue Enamel	013-01835
Black (Control Center)	Purchase Locally -
Silver (Control Center)	Purchase Locally -
Caribbean Blue (Water Base)	013

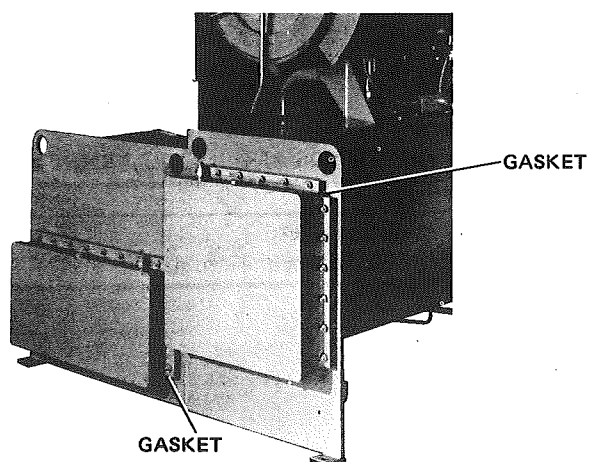


FIG. 13 — LOCATION WATER BOX GASKET

WATER BOX GASKET — PART NO. 028-09951 (CHANNEL GASKET)

COOLING UNITS

SHELL CODE	COOLER—PASS FT.			COOLING CONDENSER—PASS FT.		
	1	2	3	1	2	3
A1, A2	12.5	14.5	16.0	11.0	12.0	13.5
B1, B2	13.0	15.0	17.0	11.5	13.0	14.0
C1, C2, C3	15.5	18.0	20.5	13.5	15.0	16.5
D1, D2, D3	16.5	19.5	22.0	13.5	15.0	16.5
E1, E2, E3	18.5	22.0	24.5	16.5	18.5	20.0
F1, F2, F3	20.0	24.0	27.0	16.0	17.5	19.5
G1, G2, G3	15.5	18.0	20.5	13.5	15.0	16.5
H1, H2, H3	16.5	19.5	22.0	13.5	15.0	16.5
J1, J2, J3	18.5	22.0	24.5	16.5	18.5	20.0
K1, K2, K3	20.0	24.0	27.0	16.0	17.5	19.5
L1, L2, L3	22.5	27.0	29.0	19.0	21.0	21.0

HEAT RECOVERY UNITS

SHELL CODE	CONDENSER TOP—PASS—FT.			CONDENSER BOTTOM—PASS—FT.		
	1	2	3	1	2	3
M1, M2	11.0	12.0	12.5	11.0	12.0	12.5
N1, N2	11.5	12.5	13.0	11.5	12.5	13.0
P1, P2	13.5	14.5	15.5	13.5	14.5	15.5
Q1, Q2, Q3	15.0	16.0	17.0	15.0	16.0	17.0
R1, R2, R3	16.5	18.0	19.0	16.5	18.0	19.0
S1, S2, S3	18.5	19.5	21.0	18.5	19.5	21.0
T1, T2, T3	13.5	14.5	15.5	13.5	14.5	15.5
U1, U2, U3	15.0	16.0	17.0	15.0	16.0	17.0
V1, V2, V3	16.5	18.0	19.0	16.5	18.0	19.0
W1, W2, W3	18.5	19.5	21.0	18.5	19.5	21.0
X1, X2, X3	20.0	21.0	22.5	20.0	21.0	22.5

MARINE WATER BOXES

WATER BOX GASKET 028-03242 (BULB GASKET)
PASS BAFFLE GASKET 028-09951 (CHANNEL GASKET)

COOLING UNITS

SHELL CODE	COOLER—PASS FT.			COOLING CONDENSER—PASS FT.		
	1	2	3	1	2	3
A1, A2	(26)	10.5 (13)	8 (26)	(24)	8 (12)	6 (24)
B1, B2	(27)	11.5 (13.5)	9 (27)	(24)	9 (12)	6 (24)
C1, C2, C3	(32)	13 (16)	10 (32)	(28)	10 (14)	7 (28)
D1, D2, D3	(34)	14.8 (17)	11.5 (34)	(28)	10 (14)	7 (28)
E1, E2, E3	(38)	17 (19)	12 (38)	(34)	12 (17)	8 (34)
F1, F2, F3	(42)	17.5 (20)	13.5 (42)	(33)	12 (16.5)	7 (33)
G1, G2, G3	(32)	13 (16)	10 (32)	(28)	10 (14)	7 (28)
H1, H2, H3	(34)	14.8 (17)	11.5 (34)	(28)	10 (14)	7 (28)
J1, J2, J3	(38)	17 (19)	12 (38)	(34)	12 (17)	8 (34)
K1, K2, K3	(42)	17.5 (20)	13.5 (42)	(33)	12 (16.5)	7 (33)
L1, L2, L3	(46)	19 (23)	15 (46)	(40)	14.5 (20)	10 (40)

HEAT RECOVERY UNITS

SHELL CODE	CONDENSER TOP—PASS—FT.			CONDENSER BOTTOM—PASS—FT.		
	1	2	3	1	2	3
M1, M2	(23.5)	7.5 (12.0)	4 (23.5)	(24)	8 (12)	6 (24)
N1, N2	(24.5)	7.5 (12.5)	4 (24.5)	(24)	9 (12)	6 (24)
P1, P2	(29)	9 (14.5)	4.5 (29)	(28)	10 (14)	7 (28)
Q1, Q2, Q3	(31)	9.5 (15.5)	5 (31)	(28)	10 (14)	7 (28)
R1, R2, R3	(35)	11 (17.5)	5.5 (35)	(34)	12 (17)	8 (34)
S1, S2, S3	(38.5)	12 (19.5)	6 (38.5)	(33)	12 (16.5)	7 (33)
T1, T3	(29)	9 (14.5)	4.5 (29)	(28)	10 (14)	7 (28)
U1, U3	(31)	9.5 (15.5)	5 (31)	(28)	10 (14)	7 (28)
V1, V3	(35)	11 (17.5)	5.5 (35)	(34)	12 (17)	8 (34)
W1, W3	(38.5)	12 (19.5)	6 (38.5)	(33)	12 (16.5)	7 (33)
X1, X3	(40)	13 (20)	6 (40)	(40)	14.5 (20)	10 (40)

NOTE: () denotes gasket 028-03242, other dimension is gasket 028-09951.

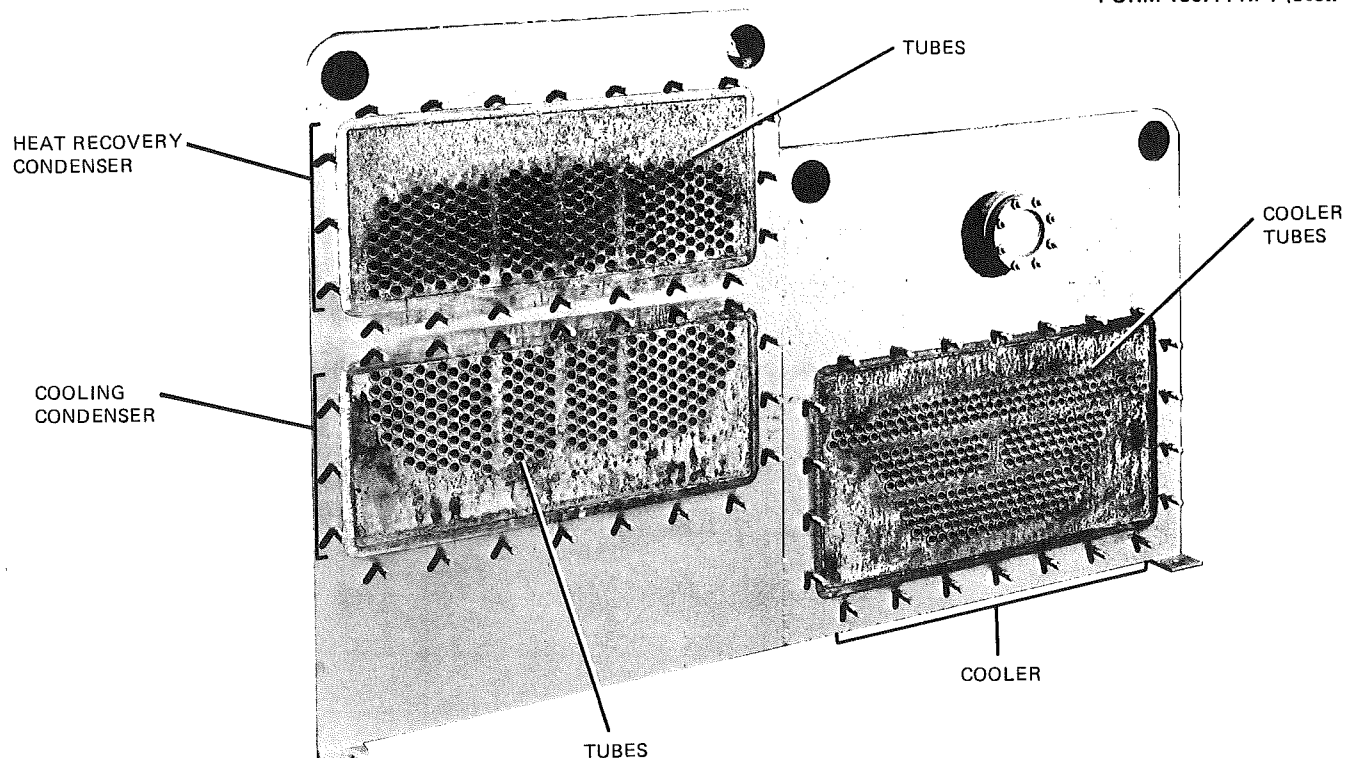


FIG. 14 – SHELL TUBES

MODEL HT/OT – A1A1B1 thru F3S3C2 COOLER & CONDENSER TUBES

SHELL CODE	COOLERS		CONDENSERS			
	TUBE PART NO. 007-06734		COOLING		HEAT RECOVERY	
	B1 & B2	C1 & C2	TUBE PT. NO. 007-06692	TUBE PT. NO. 007-06692	TUBE PT. NO. 007-06734	TUBE PT. NO. 007-06734
	B1 & B2	C1 & C2	B1 & B2	C1 & C2	B1 & B2	C1 & C2
A1	115	-	102	-	-	-
A2	145	-	130	-	-	-
B1	184	184	166	-	-	-
B2	206	206	186	-	-	-
C1	232	232	210	210	-	-
C2	264	264	238	238	-	-
C3	296	296	268	268	-	-
D1	321	321	290	290	-	-
D2	349	349	316	316	-	-
D3	377	377	342	342	-	-
E1	410	410	370	370	-	-
E2	446	446	402	402	-	-
E3	484	184	436	436	-	-
F1	-	524	-	472	-	-
F2	-	570	-	570	-	-
F3	-	618	-	55	-	-
M1	-	-	-	-	-	204
M2	-	-	-	-	-	260
N1	-	-	-	-	-	332
N2	-	-	-	-	-	372
P1	-	-	-	-	420	420
P2	-	-	-	-	476	476
P3	-	-	-	-	536	536
Q1	-	-	-	-	580	580
Q2	-	-	-	-	632	632
Q3	-	-	-	-	684	684
R1	-	-	-	-	740	740
R2	-	-	-	-	804	804
R3	-	-	-	-	872	872
S1	-	-	-	-	-	944
S2	-	-	-	-	-	1020
S3	-	-	-	-	-	1104

MODEL YT – C1T1E1 thru L3X3E3 COOLER & CONDENSER TUBES

SHELL CODE	COOLERS TUBE PART NO. 007-06722	CONDENSERS	
		COOLING	HEAT RECOVERY
		TUBE PART NO. 007-06721	TUBE PART NO. 007-06721
G1	232	210	—
G3	296	268	—
H1	321	290	—
H3	377	342	—
J1	410	370	—
J3	484	436	—
K1	524	472	—
K3	618	550	—
L1	670	598	—
L3	785	700	—
T1	—	210	210
T3	—	268	268
U1	—	290	290
U3	—	342	342
V1	—	370	370
V3	—	436	436
W1	—	472	472
W3	—	550	550
X1	—	598	598
X3	—	700	700

**York
International
Corporation**

**Applied
Systems**

**Post Office
Box
1592-368E**

**York
Pennsylvania
17405-1592**

**Telephone
717 771 7890**

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