

	FILE INFORMATION: DIVISION TAB-TRANE REFRIGERATION PRODUCTS PRODUCT TAB-RECIPROCATING COM- PRESSOR-CONDENSER UNITS MODEL TAB-Hermetic E-F LITERATURE ITEM-GENERAL SERVICE BULLETIN	LITERATURE FILE NO. <b>HCOM-SB-7A</b>
		<b>GENERAL          SERVICE BULLETIN</b>

Since the Trane Company has a policy of continuous product improvement, it reserves the right to change specifications and design without notice. The installation and servicing of the equipment referred to in this booklet should be done by qualified, experienced technicians.

6/21/77  
 Reviewed 7/1/81

SUBJECT: MODEL E AND F COMPRESSOR, HERMETIC MOTOR ORDERING INFORMATION

### INTRODUCTION

The purpose of this Service Bulletin is to provide ordering information for hermetic motors for Model E and F compressors. This provides more effective parts support for this equipment.

### DISCUSSION

Tables 1-4 provide tabulated hermetic motor ordering information as follows:

- Table 1: F Compressor - R-12
- Table 2: E Compressor - R-12
- Table 3: F Compressor - R-22
- Table 4: E Compressor - R-22

### PARTS ORDERING INFORMATION

1. Notes for proper use of Tables 1-4:

All of the motor identification information given in the columns 1-6 should be checked against the unit to verify your selection. Pay close attention to the design sequence number (the 4th digit in the compressor model number) and the type of starting.

Column 3 provides a code to identify the type of starting:

1 = 200 & 230 across-the-line or part winding. 460 across-the-line only.

2 = 440V, 460 or 575V part winding or across-the-line.

Column 4 indicates the number of motor leads. The number of terminals does not necessarily indicate the number of leads. Boards with nine terminals have been used with six lead motors.

Column 7 provides order information of replacement stocked motors. S.P. indicates motor to be special purchase. Contact La Crosse for ordering information and availability.

2. Other useful information pertaining to this subject may be found in following service bulletins:

HCOM-SB-8A System Cleanup After Hermetic Motor Burnout  
HCOM-SB-54 Reciprocating Compressor Identification

TABLE 1 - MODEL F COMPRESSORS R-12

COMPRESSOR MODEL NO. (1)	MOTOR VOLTAGE (2)	TYPE START (3)	NO. OF LEADS (4)	MOTOR DIA. (5)	NOM. H.P. (6)	REPLACEMENT MOTOR PART NO. (7)
1F5*31	Never Built	---	---	---	---	---
1F5A35	575	2	6	8.77	10	SP
1F5B35	575	2	6	8.77	10	SP
1F5A37	440	2	6	8.77	10	SP
1F5B37	440	2	6	8.77	10	SP
1F5A38	200-230-460	1	9	8.77	10	MOT-146
1F5B38	200-230-460	1	9	8.77	10	MOT-146
1F5A39	480	2	6	8.77	10	SP
1F5B39	480	2	6	8.77	10	SP
1F5*41	Never Built	---	---	---	---	---
1F5A45	575	2	6	12.375	12.5	SP
1F5B45	575	2	6	12.375	12.5	SP
1F5C45	575	2	6	8.77	12.5	MOT-505
1F5A47	440	2	6	12.375	12.5	SP
1F5B47	440	2	6	12.375	12.5	SP
1F5C47	440	2	6	8.77	12.5	SP
1F5A48	200-230-460	1	9	12.375	12.5	SP
1F5B48	200-230-460	1	9	12.375	12.5	SP
1F5C48	200-230-460	1	9	8.77	12.5	SP
1F5A49	480	2	6	12.375	12.5	SP
1F5B49	480	2	6	12.375	12.5	SP
1F5C49	480	2	6	8.77	12.5	MOT-514
1F5*51	460	2	6	8.77	15	MOT-503
1F5A55	575	2	6	12.375	15	SP
1F5B55	575	2	6	12.375	15	SP
1F5C55	Never Built	---	---	---	---	---
1F5D55	575	2	6	8.77	15	SP
1F5A57	440	2	6	12.375	15	SP
1F5B57	440	2	6	12.375	15	SP
1F5C57	Never Built	---	---	---	---	---
1F5D57	460 +	2	6	8.77	15	MOT-503
1F5A58	200-230-460	1	9	12.375	15	SP
1F5B58	200-230-460	1	9	12.375	15	SP
1F5C58	200-230-460	1	9	8.77	15	SP
1F5D58	200-230-460	1	9	8.77	15	SP
1F5A59	480	2	6	12.375	15	SP
1F5B59	480	2	6	12.375	15	SP
1F5C59	Never Built	---	---	---	---	---
1F5D59	460 +	2	6	8.77	15	MOT-503
1F5*61	460	2	6	8.77	20	MOT-498
1F5A65	575	2	6	12.375	20	SP
1F5B65	575	2	6	12.375	20	SP
1F5C65	Never Built	---	---	---	---	---
1F5D65	575	2	6	8.77	20	SP
1F5A67	440	2	6	12.375	20	MOT-365
1F5B67	440	2	6	12.375	20	MOT-365
1F5C67	Never Built	---	---	---	---	---
1F5D67	460 +	2	6	8.77	20	MOT-498
1F5A68	200-230-460	1	9	12.375	20	MOT-364
1F5B68	200-230-460	1	9	12.375	20	MOT-364
1F5C68	200-230-460	1	9	8.77	20	MOT-494
1F5D68	200-230-460	1	9	8.77	20	MOT-494

TABLE 1 - MODEL F COMPRESSORS R-12 (CONTINUED)

COMPRESSOR MODEL NO. (1)	MOTOR VOLTAGE (2)	TYPE START (3)	NO. OF LEADS (4)	MOTOR DIA. (5)	NOM. H.P. (6)	REPLACEMENT MOTOR PART NO. (7)
1F5A69	489	2	6	12.375	20	SP
1F5B69	489	2	6	12.375	20	SP
1F5C69	Never Built	---	---	---	---	---
1F5D69	460 +	2	6	8.77	20	MOT-498
1F5*81	460	2	6	8.77	25	MOT-1207
1F5A85	575	2	6	12.375	25	SP
1F5B85	575	2	6	12.375	25	SP
1F5C85	575	2	6	8.77	25	SP
1F5A87	440	2	6	12.375	25	MOT-367
1F5B87	440	2	6	12.375	25	MOT-367
1F5C87	460 +	2	6	8.77	25	MOT-493
1F5A88	200-230-460	1	9	12.375	25	MOT-366
1F5B88	200-230-460	1	9	12.375	25	MOT-366
1F5C88	200-230-460	1	9	8.77	25	MOT-489
1F5A89	480	2	6	12.375	25	SP
1F5B89	480	2	6	12.375	25	SP
1F5C89	460 +	2	6	8.77	25	MOT-493

+ 460 Volt Motors Replace Original Furnished 440 and 480 Volt Motors

TABLE 2 - MODEL E COMPRESSORS R-12

COMPRESSOR MODEL NO. (1)	MOTOR VOLTAGE (2)	TYPE START (3)	NO. OF LEADS (4)	MOTOR DIA. (5)	NOM. H.P. (6)	REPLACEMENT MOTOR PART NO. (7)
1E5*41	460	2	6	15.562	30	SP
1E5*45	575	2	6	15.562	30	SP
1E5*47	440	2	6	15.562	30	SP
1E5*48	200-230-460	1	9	15.562	30	SP
1E5*49	480	2	6	15.562	30	SP
1E5*51	460 +	2	6	15.562	40	SP
1E5*55	575	2	6	15.562	40	SP
1E5*57	440	2	6	15.562	40	SP
1E5*58	200-230-460	1	9	15.562	40	SP
1E5*59	480	2	6	15.562	40	SP
1E5*61	460	2	6	15.562	50	MOT-1208
1E5*65	575	2	6	15.562	50	SP
1E5*67	460 +	2	6	15.562	50	MOT-1208
1E5*68	200-230-460	1	9	15.562	50	MOT-373
1E5*69	460 +	2	6	15.562	50	MOT-1208
1E5*81	460	2	6	15.562	60	MOT-1209
1E5*85	575	2	6	15.562	60	MOT-511
1E5*87	460 +	2	6	15.562	60	MOT-1209
1E5*88	200-230-460	1	9	15.562	60	MOT-376
1E5*89	460 +	2	6	15.562	60	MOT-1209

\* Design sequence; 4 through 6 cylinder is A through M

+ 8 cylinder is A through R

TABLE 3 - MODEL F COMPRESSORS R-22

COMPRESSOR MODEL NO. (1)	MOTOR VOLTAGE (2)	TYPE START (3)	NO. OF LEADS (4)	MOTOR DIA. (5)	NOM. H.P. (6)	REPLACEMENT MOTOR PART NO. (7)
2F5*31	460	2	6	8.77	15	MOT-517
2F5A35	575	2	6	8.77	15	SP
2F5B35	575	2	6	8.77	15	SP
2F5A37	460 +	2	6	8.77	15	MOT-517
2F5B37	460 +	2	6	8.77	15	MOT-517
2F5A38	200-230-460	1	9	8.77	15	MOT-144
2F5B38	200-230-460	1	9	8.77	15	MOT-144
2F5A39	460 +	2	6	8.77	15	MOT-517
2F5B39	460 +	2	6	8.77	15	MOT-517
2F5*41	460	2	6	8.77	20	MOT-363
2F5A45	575	2	6	12.375	20	SP
2F5B45	575	2	6	12.375	20	SP
2F5C45	575	2	6	8.77	20	SP
2F5A47	440	2	6	12.375	20	MOT-365
2F5B47	440	2	6	12.375	20	MOT-365
2F5C47	460 +	2	6	8.77	20	MOT-363
2F5A48	200-230-460	1	9	12.375	20	MOT-364
2F5B48	200-230-460	1	9	12.375	20	MOT-364
2F5C48	200-230-460	1	9	8.77	20	MOT-362
2F5A49	480	2	6	12.375	20	SP
2F5B49	480	2	6	12.375	20	SP
2F5C49	460	2	6	8.77	20	MOT-363
2F5*51	460	2	6	8.77	25	MOT-493
2F5A55	575	2	6	12.375	25	SP
2F5B55	575	2	6	12.375	25	SP
2F5C55	Never Built	---	---	---	---	---
2F5D55	575	2	6	8.77	25	SP
2F5A57	440	2	6	12.375	25	MOT-367
2F5B57	440	2	6	12.375	25	MOT-367
2F5C57	Never Built	---	---	---	---	---
2F5D57	460 +	2	6	8.77	25	MOT-493
2F5A58	200-230-460	1	9	12.375	25	MOT-366
2F5B58	200-230-460	1	9	12.375	25	MOT-366
2F5C58	200-230-460	1	9	8.77	25	MOT-489
2F5D58	200-230-460	1	9	8.77	25	MOT-489
2F5A59	480	2	6	12.375	25	SP
2F5B59	480	2	6	12.375	25	SP
2F5C59	Never Built	---	---	---	---	---
2F5D59	460 +	2	6	8.77	25	MOT-493
2F5*61	460	2	6	8.77	30	MOT-488
2F5A65	575	2	6	12.375	30	SP
2F5B65	575	2	6	12.375	30	SP
2F5C65	Never Built	---	---	---	---	---
2F5D65	575	2	6	8.77	30	SP
2F5A67	440	2	6	12.375	30	MOT-369
2F5B67	440	2	6	12.375	30	MOT-369
2F5C67	Never Built	---	---	---	---	---
2F5D67	460 +	2	6	8.77	30	MOT-460
2F5A68	200-230-460	1	9	12.375	30	SP
2F5B68	200-230-460	1	9	12.375	30	SP
2F5C68	200-230-460	1	9	8.77	30	MOT-484
2F5D68	200-230-460	1	9	8.77	30	MOT-484
2F5A69	480	2	6	12.375	30	MOT-473
2F5B69	480	2	6	12.375	30	MOT-473

TABLE 3 - MODEL F COMPRESSORS R-22 (CONTINUED)

COMPRESSOR MODEL NO. (1)	MOTOR VOLTAGE (2)	TYPE START (3)	NO. OF LEADS (4)	MOTOR DIA. (5)	NOM. H.P. (6)	REPLACEMENT MOTOR PART NO. (7)
2F5C69	Never Built	---	---	---	---	---
2F5D69	460 +	2	6	8.77	30	MOT-488
2F5*81	460	2	6	8.77	40	MOT-1207
2F5A85	575	2	6	12.375	40	SP
2F5B85	575	2	6	12.375	40	SP
2F5C85	575	2	6	8.77	40	SP
2F5A87	440	2	6	12.375	40	MOT-371
2F5B87	440	2	6	12.375	40	MOT-371
2F5C87	460 +	2	6	8.77	40	MOT-1207
2F5A88	200-230-460	1	9	12.375	40	MOT-370
2F5B88	200-230-460	1	9	12.375	40	MOT-370
2F5C88	200-230-460	1	9	8.77	40	MOT-899
2F5A89	480	2	6	12.375	40	MOT-302
2F5B89	480	2	6	12.375	40	MOT-372
2F5C89	460 +	2	6	8.77	40	MOT-1207

+ 460 Volt Motors Replace Original Furnished 440 and 480 Volt Motors.

TABLE 4 - MODEL E COMPRESSORS R-22

COMPRESSOR MODEL NO. (1)	MOTOR VOLTAGE (2)	TYPE START (3)	NO. OF LEADS (4)	MOTOR DIA. (5)	NOM. H.P. (6)	REPLACEMENT MOTOR PART NO. (7)
2E5*41	460	2	6	15.562	50	MOT-1208
2E5*45	575	2	6	15.562	50	SP
2E5*47	460 +	2	6	15.562	50	MOT-1208
2E5*48	200-230-460	1	9	15.562	50	MOT-373
2E5*49	460 +	2	2	15.562	50	MOT-1208
2E5*51	460	2	6	15.562	60	MOT-1209
2E5*55	575	2	6	15.562	60	MOT-511
2E5*57	460 +	2	6	15.562	60	MOT-1209
2E5*58	200-230-460	1	9	15.562	60	MOT-376
2E5*59	460 +	2	2	15.562	60	MOT-1209
2E5*61	460	2	6	15.562	75	MOT-1210
2E5*65	575	2	6	15.562	75	MOT-512
2E5*67	460 +	2	6	15.562	75	MOT-1210
2E5*68	200-230-460	1	9	15.562	75	MOT-164
2E5*69	460	2	6	15.562	75	MOT-1210
2E5*81	460	2	6	15.562	100	MOT-1211
2E5*85	575	2	6	15.562	100	SP
2E5*87	460 +	2	6	15.562	100	MOT-1211
2E5*88	200-230-460	1	9	15.562	100	MOT-166
2E5*89	460 +	2	6	15.562	100	MOT-1211

\* Design sequence: all compressors A through G

+ 460 volt motors replace original furnished 440 and 480 volt motors.