



**TRANE**

**REDDI FACTS**

**Weathertron® Heat Pump  
Model: BWD736A100B0**

**IMPORTANT — This document is customer property and is to remain with this unit. Please return to service information pack upon completion of work.**

Library	Service Literature
Product Section	Unitary
Product	Split System, Heat Pumps
Model	BWD
Literature Type	Service Facts
Sequence	6
Date	May 1987
File No.	SV-UN-S/SP-BWD-SF-6 5/87
Supersedes	

**PRODUCT SPECIFICATIONS**

OUTDOOR UNIT	BWD736A100B0	RATINGS WITH BWY736A
<b>PWR. CONNS.</b> — V/Ph/Hz Min. Brch. Cir. Ampacity Ⓞ Br. Cir. — Max. (Amps) Prot. Rtg. — Recmd. (Amps) Noise Rating No. Ⓞ	208-230/1/60 29.5 50 50 8.2	Cooling BTUH — 34800 Ⓞ Heating BTUH — 34400 Ⓞ
<b>COMPRESSOR</b> No. Used — No. Speeds Volts/Ph/Hz R.L. Amps — L.R. Amps Brch. Cir. Selec. Cur. Amps	Climatuff™ 1 — 1 230/1/60 22.2 — 98 22.2	Indoor Airflow (CFM) — 1200
<b>OUTDOOR FAN</b> — Type Dia. (in.) — No. Used Type Drive — No. Speeds CFM @ 0.0 in. w.g. Ⓞ No. Motors — HP Motor Speed R.P.M. Volts/Ph/Hz F.L. Amps — L.R. Amps	Propeller 18 — 1 Direct — 1 3150 1 — 1/3 1600 200-230/1/60 1.7 — 3.3	System Power (KW) Cooling — 5.11 Heating — 3.98
<b>OUTDOOR COIL</b> — Type Rows — F.P.I. Face Area (sq. ft.) Tube Size (in.) Refrigerant Control	Spine Fin™ 1 — 20 12.4 3/8 Expansion Valve	BTUH/Watts — Hr. Clg. — EER/SEER 6.80/7.25 Htg. — HSPF — 6.00 Htg. — COP — 2.55
<b>REFRIGERANT</b> Lbs. — R-22 (O.D. Unit) Ⓞ Factory Supplied Line Size — in. O.D. Gas Ⓞ Line Size — in. O.D. Liq. Ⓞ	6 Yes 7/8 5/16	
<b>DIMENSIONS</b> Outdoor Unit — Crated (in.)	H x W x D 33 x 25 x 25	
<b>WEIGHT</b> Shipping (lbs.) Net (lbs.)	174 165	

- Ⓞ Rated in accordance with A.R.I. Standard 240.
- Ⓞ Rated in accordance with A.R.I. Standard 270.

- Ⓞ Calculated in accordance with currently prevailing National Electric Code.
- Ⓞ Standard Air — Dry Coil — Outdoor.
- Ⓞ This value approximate. For more precise value see unit nameplate and service instruction.
- Ⓞ Max. linear length 80 ft.; Max. lift - Suction 60 ft.; Max. lift - Liquid 60 ft. Max. length of precharged tubing 40 ft. For greater length refer to Refrigerant Piping Manual Pub. No. 22-3040.
- Ⓞ Rated in accordance with D.O.E. test procedure. HSPF is at the minimum design requirement for Region IV.



SPLIT SYSTEM

**SAFETY NOTICE**

THIS INFORMATION IS INTENDED FOR USE BY INDIVIDUALS POSSESSING ADEQUATE BACKGROUNDS OF ELECTRICAL AND MECHANICAL EXPERIENCE. ANY ATTEMPT TO REPAIR A CENTRAL AIR CONDITIONING PRODUCT MAY RESULT IN PERSONAL INJURY AND/OR PROPERTY DAMAGE. THE MANUFACTURER OR SELLER CANNOT BE RESPONSIBLE FOR THE INTERPRETATION OF THIS INFORMATION, NOR CAN IT ASSUME ANY LIABILITY IN CONNECTION WITH ITS USE.

**OPTIONAL EQUIPMENT**

**OPTIONAL EQUIPMENT FOR OUTDOOR UNITS**

- Indoor Thermostats —
  - Automatic Heat/Cool w/Two-Stage Heating ..... BAY28X138
  - Manual Seasonal Selector
  - Heat/Cool w/Two-Stage Heat ..... BAY28X139
  - Auto. Changeover, Elect. Thermostat
    - Control ..... BAY28X194
    - Sub-base for use w/BAY28X194 ..... BAY28X195
- Outdoor Thermostat Kit
  - Includes Thermostat AY28X125 And Mtg. Brkt., For 46°F. to -10°F. (Adjustable) ..... BAY28X125A
  - Low Ambient Cooling Control Kit ..... AY28X84
  - Quick-Start Kit (Plug-In) ..... BAY41X189
  - Plus 1 Add-On Heat Pump
    - Control Kit ..... BAY24X39C
  - Coupling Kit — 7/8" Tube (90° Bend) Size
    - 11 Coupling, 3/8" Tube -6 Coupling ..... BAY71X103
  - Coupling Kit — 7/8" Tube -11 Coupling,
    - 3/8" Tube -6 Coupling ..... BAY71X104

**TUBING INFORMATION**

Tubing Sizes		Length	Additional Refrigerant
Suction	Liquid		
7/8"	5/16"	15'	3 oz.
7/8"	5/16"	25'	8 oz.
7/8"	5/16"	32'	11 oz.
7/8"	5/16"	40'	15 oz.

Tubing lengths in excess of forty (40) feet use the following amount: 7/8" and 5/16" uses 5 oz. per each 10 ft.

**RECONNECT ALL GROUNDING DEVICES**

ALL PARTS OF THIS PRODUCT CAPABLE OF CONDUCTING ELECTRICAL CURRENT ARE GROUNDED. IF GROUNDING WIRES, SCREWS, STRAPS, CLIPS, NUTS OR WASHERS USED TO COMPLETE A PATH TO GROUND ARE REMOVED FOR SERVICE, THEY MUST BE RETURNED TO THEIR ORIGINAL POSITION AND PROPERLY FASTENED.

**DISCONNECT POWER BEFORE SERVICING**

**The Trane Company**

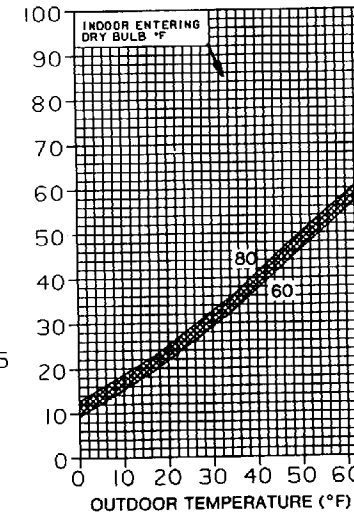
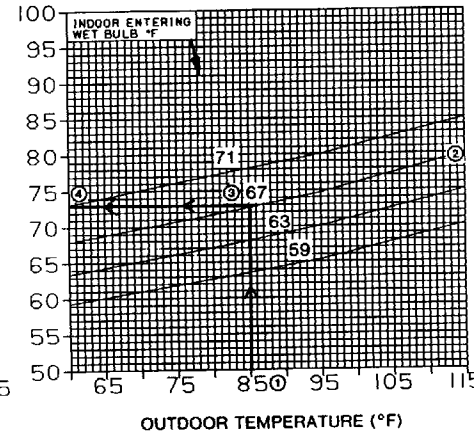
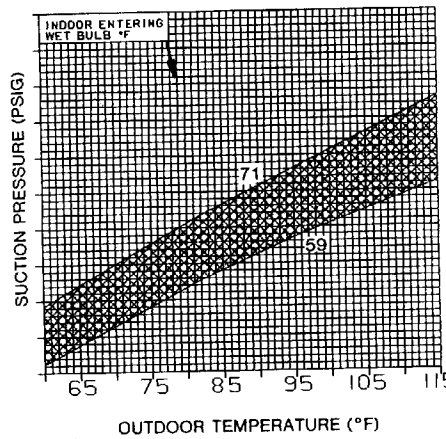
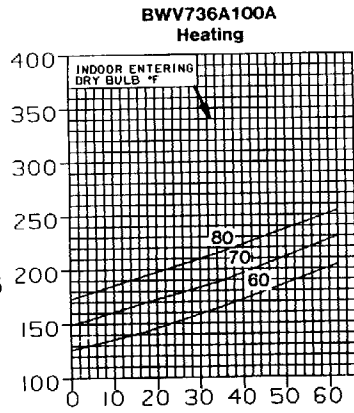
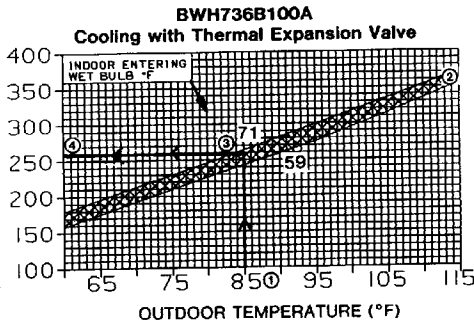
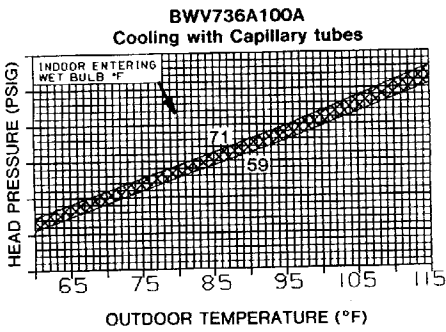
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**PERFORMANCE CURVES — BWD736A100B with Indoor Unit BWV736A100A; BWH736B100A. All data at Indoor CFM 1200. (With Interconnecting Lines of 7/8" O.D. Suction and 5/16" O.D. Liquid)**



From Dwg. 21D134515 Rev. 1

**ALTERNATE INDOOR UNITS**

INDOOR UNIT	CFM	CORR. PRESS.	
		S.	H.
BWV736A100A	1200	0	0
BXF736A2HPA	1200	-3	0
BWV034F100A	1200	+3	-20
BWV034F10JA	1200	+3	-20
BWV034F10RA	1200	+3	-20
BWV034F10SA	1200	+3	-20
BWH736A100A	1200	0	0
BWV036A100C	1200	0	0
BWV042A100C	1350	+3	-10

**COOLING WITH THERMAL EXPANSION VALVE**

BWH736P100A	1200	0	0
BWH736P100A	1200	0	0
BXA742P3HPA	1350	0	0
BXA748P3HPA	1350	+3	0
BXF760A3HPA	1350	+3	0
BWE060C100E	1350	+3	0
BWH736S100A	1200	+3	0
BWV736P100A	1200	0	0
BWV736S100A	1200	+3	0
BWV739P100A	1200	0	0
BWV739S100A	1200	+3	0
BWH742P100A	1350	+3	0
BWV742P100A	1350	+3	0
BWH748P100A	1350	+6	+10
BWV748P100A	1350	+6	+10

**HEATING**

BWV736A100A	1200	0	0
BXA736P3HPA	1200	+3	+10
BXF736A2HPA	1200	0	0
BXA742P3HPA	1350	0	0
BXA748P3HPA	1350	0	-10
BXF760A3HPA	1350	0	-10
BWV034F100A	1200	0	0
BWV034F10JA	1200	0	0
BWV034F10RA	1200	0	0
BWV034F10SA	1200	0	0
BWE060C100E	1350	0	-10
BWH736A100A	1200	0	0
BWH736P100A	1200	0	0
BWH736S100A	1200	-3	-20
BWV036A100C	1200	0	0
BWV736P100A	1200	0	0
BWV736S100A	1200	-3	-20
BWV739P100A	1200	0	0
BWV739S100A	1200	0	0
BWH742P100A	1350	0	-10
BWV042A100C	1350	0	-10
BWV742P100A	1350	0	-10
BWH748P100A	1350	0	-10
BWV748P100A	1350	0	-10

\*BASE INDOOR UNIT FOR CURVES ON DRAWING 21D134515.

S - Suction H - Head

From Dwg. 21A134515 Rev. 1

COOLING PERFORMANCE CAN BE CHECKED WHEN THE OUTDOOR TEMP. IS ABOVE 75°F. HEATING PERFORMANCE CAN BE CHECKED WHEN THE OUTDOOR TEMP. IS BELOW 60°F. BOTH HEATING AND COOLING PERFORMANCE CAN BE CHECKED WHEN THE OUTDOOR TEMP. IS BETWEEN 60°F. AND 75°F. TO CHECK COOLING PERFORMANCE, ALLOW PRESSURES TO STABILIZE AND MEASURE INDOOR WET BULB TEMP. — OUTDOOR TEMP. — HEAD AND SUCTION PRESSURES. LOCATE OUTDOOR TEMP. ⊙ LOCATE INDOOR WET BULB ⊙ FIND INTERSECTION OF OD TEMP. & ID W.B. ⊙ READ HEAD OR SUCTION PRESSURE IN LEFT HAND COLUMN ⊙

ACTUAL HEAD PRESSURE SHOULD BE ± 10 PSIG OF CHART  
SUCTION PRESSURE SHOULD BE ± 3 PSIG OF CHART

EXAMPLE: ⊙ OUTDOOR TEMP 85°F., ⊙ INDOOR WET BULB 67°F.,  
⊙ HEAD PRESSURE @ 1200 CFM = 260 PSIG ⊙  
⊙ SUCTION PRESSURE @ 1200 CFM = 73 PSIG ⊙