FUITSU



FO*20R SERIES

Efficiencies up to 20 SEER/14 EER/11.5 HSPF Nominal Sizes 2, 3, 4 & 5 Ton [7.03, 10.6, 14.06 & 17.6 kW] Cooling Capacities 17.3 to 60.5 kBTU [5.7 to 17.7 kW]

Manufactured for Fujitsu General America, Inc.

Fairfield, NJ











VARIABLE SPEED HEAT PUMPS

Features

- Energy Efficiency offers up to 20 SEER and 11.5 HSPF system performance across all capacities. The FO*20R achieves these performance measurements with RHMV variable speed air handlers, R802V two-stage, variable-speed 80% furnaces, R96V two-stage, variable-speed 96% furnaces and R97V and R98V modulating furnaces.
- Expanded Valve Space 3"-4"-5" service valve space provides a minimum working area of 27-square inches for easier access
- Triple Service Access 15" wide, industry leading corner service access - makes repairs easier and faster. The three fastener removable corner allows optimal access to internal unit components. Individual louver panels come out once fastener is removed, for faster coil cleaning and easier cabinet reassembly
- EcoNet[®] Enabled product. The EcoNet Smart Home System provides advanced air & water control for maximum energy savings and ideal comfort.
- New composite base pan dampens sound, captures louver panels, eliminates corrosion and reduces number of fasteners needed
- Powder coat paint system for a long lasting professional finish
- The Copeland Scroll[™] Variable Speed Compressor has a modulating technology which provides more precise temperature control, lower humidity and greater efficiency.
- Modern cabinet aesthetics increased curb appeal with visually appealing design
- Equipped with electronic expansion valve to precisely control variable refrigerant flow.
- Improved tubing design reduces vibration and stress, making unit quieter and reducing opportunity for leaks
- Optimized defrost characteristics decrease defrosting and provide better home comfort
- Optimized reversing valve sizing improves shifting performance for quieter unit operation and increased life of the system
- Enhanced mufflers help to dissipate vibration energy for quieter unit operation
- Integrated heat pump lift receptacle allows standard CPVC stands to be inserted into the base
- Curved louver panels provide ultimate coil protection, enhance cabinet strength, and increased cabinet rigidity
- Optimized fan orifice optimizes airflow and reduces unit sound
- Rust resistant screws confirmed through 1500-hour salt spray testing
- External gauge port access allows easy connection of "low-loss" gauge ports
- Single-row condenser coil makes unit lighter and allows thorough coil cleaning to maintain "out of the box" performance
- 35% fewer cabinet fasteners and fastener-free base allow for faster access to internal components and hassle-free panel removal
- Service trays hold fasteners or caps during service calls
- QR code provides technical information on demand for faster service calls
- Fan motor harness with extra long wires allows unit top to be removed without disconnecting fan wire.
- High and low pressure transducers standard on all models.

"Proper sizing and installation of equipment is critical to achieve optimal performance. Split system air conditioners and heat pumps must be matched with appropriate coil components to meet ENERGY STAR criteria. Ask your Contractor for details or visit www.energystar.gov.

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Heat	t Pumps							
FO	<u>24</u>	<u>20</u>	<u>R</u>	<u>v</u>	Ţ	<u>c</u>	<u>A</u>	B
Brand	Capacity	SEER	Product	Туре	Voltage	Controls	Minor Series	Major Series
FO = Fujitsu	24 = 24,000 BTU/H 36 = 36,000 BTU/H 48 = 48,000 BTU/H 60 = 60,000 BTU/H	20 = 20 SEER	R = Heat Pump	V = Inverter	J = 1 ph, 208-230/60	C = Communicating	A = First Design Series	B = Second Design Series

Available SKUs

Available Models
F02420RVJCAB
F03620RVJCAB
F04820RVJCAB
F06020RVJCAB

Model No.	F02420R	F03620R	F04820R	F06020R
Nominal Tonnage	2.0	3.0	4.0	5.0
Valve Connections				
Liquid Line O.D. – in.	3/8	3/8	3/8	3/8
Suction Line O.D. – in.	3/4	3/4	7/8	1-1/8
Refrigerant (R-410A) furnished oz. ¹	210	212	222	252
Compressor Type		Sc	croll	
Outdoor Coil				
Net face area – Outer Coil	28.3	28.3	32.5	32.5
Tube diameter – in.	0.375	0.375	0.375	0.375
Number of rows	1	1	1	1
Fins per inch	20	20	20	20
Outdoor Fan			•	
Diameter – in.	26	26	26	26
Number of blades	3	3	3	3
Motor hp	1/2	1/2	1/2	1/2
Shipping weight – Ibs.	278	298	298	301
Operating weight – Ibs.	282	306	306	309

Electrical Data									
Line Voltage Data (Volts-Phase-Hz)	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60					
Maximum overcurrent protection (amps) ²	30	50	60	60					
Minimum overcurrent protection	25	40	50	50					
Minimum circuit ampacity ³	22	32	37	42					
Compressor									
Rated load amps	15.4	24	28.1	31.7					
Locked rotor amps	35	50	50	50					
Condenser Fan Motor									
Full load amps	1.9	1.8	1.2	2					
Locked rotor amps	N/A	N/A	N/A	N/A					

¹Refrigerant charge sufficient for 15 ft. length of refrigerant lines. For longer line set requirements see the installation instructions for information about set length and additional refrigerant charge required.
²HACR type circuit breaker of fuse.
³Refer to National Electrical Code manual to determine wire, fuse and disconnect size requirements.

Accessories

Model No.	F02420R	F03620R	F04820R	F06020R
EcoNet Smart Thermostat	RETST700SYS	RETST700SYS	RETST700SYS	RETST700SYS
Heat pump Riser 6 in.	686020	686020	686020	686020
Supply Return Sensor	RXHT-A02	RXHT-A02	RXHT-A02	RXHT-A02
Rheem Show Unit Shell	RXHD-CU4	RXHD-CU4	RXHD-CU4	RXHD-CU4

Weighted Sound Power Level (dBA)

				F0*20R	Sound Power	Level				
Model	Sound Power Level [dB(A)]	Full Octave Linear Sound Power Level dB - Center Frequency - Hz								
	Low Speed/ High Speed	125	250	500	1000	2000	4000	6300	8000	with Sound Blanket
F02420B	59	34.8	39.7	50.8	48.4	42.5	40.2	34.6	34.5	
FU2420R	69	45.0	50.6	59.5	57.9	56.6	49.5	45.7	44.8	Sound Blankets -
F03620B	60	33.6	38.3	57.6	48.2	43.6	39.7	43.0	39.3	
F03020h	70	44.8	51.1	60.8	60.1	56.2	50.3	49.9	48.3	
F04820B	59	34.0	38.9	52.3	48.0	43.5	39.8	42.2	37.3	Standard
FU4020K	73	48.5	54.4	65.4	63.1	58.0	55.0	53.3	51.6	
F06020R	58	36.0	39.3	51.4	46.2	43.8	43.0	41.3	40.2	
FUUUZUK	73	49.8	54.0	68.0	59.2	55.9	53.7	50.7	49.3	

NOTE: Tested in accordance with AHRI Standard 270-08 (not listed in AHRI)

Integrated Controls



EcoNet is smart technology that allows Heating, Cooling, and Water Heating products to communicate with each other on one integrated network.

Easy to Setup, Easy to Use, Easy to Save

- Optimized for Installability[™], Performance, Integration & Serviceability
- Controls 65%[†] or more of a typical home's energy use from a single device
- Can reduce energy costs by up to 30%⁺⁺

Features

- Added support for new EEV (Electronic Expansion Valve) Air Handlers, Air Conditioners and Heat Pumps*
- Rapid installation with standard 4-wire configuration
- Automatically configures communicating equipment with optimal settings
- Adapts to home décor through interchangeable faceplates and adjustable background coloring
- Full-color, 4.7" LCD touchscreen display with easy-to-read icons and text
- Convenient date, time and indoor/outdoor temperature indications
- 5 operating modes with short-cycle protection (Heat, Cool, Auto, Emergency Heat, Fan Only)

EcoNet Control Center Compatibility

- 7-Day programmable schedule with Smooth Arrival & Whole Home Vacation options
- Detailed operating status, alarm history, and audible alerts
- Supports humidifier accessories or overcool based dehumidification
- One-touch access to Water Heater Management^{†††}
- Easily manage from anywhere in the world with the compatible WiFi Module & EcoNet app for smart phones and tablets

Warranty

- 5-Year limited warranty from date of installation
- [†] Source Department of Energy
- ⁺⁺ When compared to non-programmable thermostats. Source: ENERGY STAR[®] for Programmable Thermostats
- **** Requires wired connection to EcoNet Enabled Electric or Hybrid Water Heaters



EcoNet[®] Control Center

Home control with intuitive LCD touchscreen navigation

FETST601SYS

OFFERINGS **HEATING & COOLING Product Categories Gas Furnaces Air Handlers Air Conditioners** FF***LT96 FF***TTT FF***LT97 FF***LT80 FH**ELV F0*20C F0*17C Models FETST601SYS √ $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ $\sqrt{}$

**Electronic Expansion Valve (EEV) Models

Unit Dimensions

MODEL			OPER	ATING			SHIPPING					
MODEL NO.	H (He	eight)	L (Le	ngth)	W (W	/idth)	H (He	eight)	L (Le	ngth)	W (W	'idth)
	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm
F02420R	39	990	35.75	908	35.75	908	41.56	1056	39.37	999	39.64	1006
F03620R	39	990	35.75	908	35.75	908	53.56	1360	39.37	999	39.64	1006
F04820R	51	1295	35.75	908	35.75	908	53.56	1360	39.37	999	39.64	1006
F06020R	51	1295	35.75	908	35.75	908	53.56	1360	39.37	999	39.64	1006



ST-A1226-23-00

[] Designates Metric Conversions



NOTE: NUMBERS IN () = mm

IMPORTANT: When installing multiple units in an alcove, roof well or partially enclosed area, ensure there is adequate ventilation to prevent re-circulation of discharge air.

Refrigerant Line Sizing Chart (English Units)

			20 SEER \	/ariable Speed He	at Pumps						
	Allowable	Allowable	Outdoor Unit ABOVE or BELOW Indoor Unit Equivalent Length (Feet)								
Unit Size	Liquid Line Size	Vapor Line Size	< 25	26-50	51-75	76-100	101-125	126-150			
				Maxin	num Vertical Sepa	ration/Capacity Mu	ıltiplier				
	1/4"	5/8"	25/1.00	50/0.99	33/0.98	60/0.97	NR	NR			
	5/16"	5/8"	25/1.00	50/0.99	50/0.98	50/0.97	50/0.96	50/0.95			
2.0 Ton	3/8"	5/8"	25/1.00	50/0.99	50/0.98	50/0.97	50/0.96	50/0.95			
SEE NOTE 3	1/4"	3/4"	25/1.00	50/1.00	33/0.99	60/0.99	NR	NR			
Γ	5/16"	3/4"*	25/1.00	50/1.00	50/0.99	50/0.99	50/0.99	50/0.98			
Γ	3/8"	3/4"*	25/1.00	50/1.00	50/0.99	50/0.99	50/0.99	50/0.98			
	5/16"	5/8"	25/0.99	50/0.97	50/0.95	50/0.93	36/0.91	NR			
Γ	3/8"	5/8"	25/0.99	50/0.97	50/0.95	50/0.93	50/0.91	NR			
3 Ton	5/16"	3/4"	25/1.00	50/0.99	50/0.99	50/0.98	36/0.97	20/0.96			
Γ	3/8"	3/4"	25/1.00	50/0.99	50/0.99	50/0.98	50/0.97	50/0.96			
Γ	1/2"	3/4"	25/1.00	50/0.99	50/0.99	50/0.98	50/0.97	50/0.96			
	3/8"	3/4"	25/0.99	50/0.98	50/0.96	50/0.95	50/0.93	50/0.92			
4 7	1/2"	3/4"	25/0.99	50/0.98	50/0.96	50/0.95	50/0.93	50/0.92			
4 Ton	3/8"	7/8"	25/1.00	50/0.99	50/0.99	50/0.98	50/0.98	50/0.97			
	1/2"	7/8"	25/1.00	50/0.99	50/0.99	50/0.98	50/0.98	50/0.97			
	3/8"	3/4"	25/0.98	50/0.97	50/0.95	50/0.93	46/0.91	NR			
F	1/2"	3/4"	25/0.98	50/0.97	50/0.95	50/0.93	50/0.91	NR			
5 Tan	3/8"	7/8"	25/0.99	50/0.99	50/0.98	50/0.97	50/0.96	38/0.95			
5 Ton	1/2"	7/8"	25/0.99	50/0.99	50/0.98	50/0.97	50/0.96	50/0.95			
	3/8"	1-1/8"**	25/1.00	50/1.00	50/1.00	50/0.99	50/0.99	38/0.99			
F	1/2"	1-1/8"**	25/1.00	50/1.00	50/1.00	50/0.99	50/0.99	50/0.99			

NOTES:

1. Do not exceed 150 ft linear line length.

2. Do not exceed 50 ft vertical separation between indoor and outdoor units.

 *3/4" vapor line should only be used for 2 ton systems if outdoor unit is below or at same level as indoor unit to assure proper oil return.

4. **1-1/8" vapor line should only be used for 5 ton systems if outdoor unit is below or at same level as indoor unit to assure proper oil return.

5. Always use the smallest liquid line allowable to minimize refrigerant charge.

Applications shaded in light gray indicate capacity multipliers between 0.90 and 0.96 which are not recommended, but are allowed.

7. Applications shaded in dark gray are not recommended due to excessive liquid or suction pressure drop.

Refrigerant Line Sizing Chart (Metric Units)

			20 SEER \	ariable Speed He	at Pumps						
_	Allowable	Allowable		Outdoor Unit ABOVE or BELOW Indoor Unit Equivalent Length (Meters)							
Unit Size	Liquid Line Size	Vapor Line Size	< 8	8-15	16-23	24-30	31-38	39-46			
				Maxim	um Vertical Separ	ation/Capacity Mu	ltiplier				
	6.35 [1/4]	15.88 [5/8]	8/1.00	15/0.99	10/0.98	20/0.97	NR	NR			
	7.94 [5/16]	15.88 [5/8]	8/1.00	15/0.99	15/0.98	15/0.97	15/0.96	15/0.95			
7.0 kW	9.53 [3/8]	15.88 [5/8]	8/1.00	15/0.99	15/0.98	15/0.97	15/0.96	15/0.95			
[2.0 Ton] *SEE NOTE 3	6.35 [1/4]	19.05 [3/4]	8/1.00	15/0.99	10/0.99	20/0.99	NR	NR			
	7.94 [5/16]	19.05 [3/4]	8/1.00	15/0.99	15/0.99	15/0.99	15/0.99	15/0.98			
	9.53 [3/8]	19.05 [3/4]	8/1.00	15/0.99	15/0.99	15/0.99	15/0.99	15/0.98			
	7.94 [5/16]	15.88 [5/8]	8/0.99	15/0.97	15/0.95	15/0.93	11/0.91	NR			
	9.53 [3/8]	15.88 [5/8]	8/0.99	15/0.97	15/0.95	15/0.93	15/0.91	NR			
10.6 kW [3 Ton]	7.94 [5/16]	19.05 [3/4]	8/1.00	15/0.99	15/0.99	15/0.98	11/0.97	6/0.96			
	9.53 [3/8]	19.05 [3/4]	8/1.00	15/0.99	15/0.99	15/0.98	15/0.97	15/0.96			
	12.7 [1/2]	19.05 [3/4]	8/1.00	15/0.99	15/0.99	15/0.98	15/0.97	15/0.96			
	9.53 [3/8]	19.05 [3/4]	8/0.99	15/0.98	15/0.96	15/0.95	15/0.93	15/0.92			
14.1 kW	12.7 [1/2]	19.05 [3/4]	8/0.99	15/0.98	15/0.96	15/0.95	15/0.93	15/0.92			
[4 Ton]	9.53 [3/8]	22.23 [7/8]	8/1.00	15/0.99	15/0.99	15/0.98	15/0.98	15/0.97			
	12.7 [1/2]	22.23 [7/8]	8/1.00	15/0.99	15/0.99	15/0.98	15/0.98	15/0.97			
	9.53 [3/8]	19.05 [3/4]	8/0.98	15/0.97	15/0.95	15/0.93	14/0.91	NR			
-	12.7 [1/2]	19.05 [3/4]	8/0.98	15/0.97	15/0.95	15/0.93	15/0.91	NR			
17.6 kW	9.53 [3/8]	22.23 [7/8]	8/0.99	15/0.99	15/0.98	15/0.97	15/0.96	12/0.95			
[5 Ton]	12.7 [1/2]	22.23 [7/8]	8/0.99	15/0.99	15/0.98	15/0.97	15/0.96	15/0.95			
	9.53 [3/8]	28.58 [1-1/8]**	8/1.00	15/1.00	15/1.00	15/0.99	15/0.99	12/0.99			
ľ	12.7 [1/2]	28.58 [1-1/8]**	8/1.00	15/1.00	15/1.00	15/0.99	15/0.99	15/0.99			

NOTES:

1. Do not exceed 46 meters linear line length.

2. Do not exceed 15 meters vertical separation between indoor and outdoor units.

 *19.05mm [3/4 in.] vapor line should only be used for 2 ton systems if outdoor unit is below or at same level as indoor unit to assure proper oil return.

 **28.58mm [1-1/8 in.] vapor line should only be used for 5 ton systems if outdoor unit is below or at same level as indoor unit to assure proper oil return.

5. Always use the smallest liquid line allowable to minimize refrigerant charge.

- Applications shaded in light gray indicate capacity multipliers between 0.90 and 0.96 which are not recommended, but are allowed.
- 7. Applications shaded in dark gray are not recommended due to excessive liquid or suction pressure drop.





(-)P2024B Cooling Capacity Ranges



(-)P2036B Cooling Capacity Ranges

(-)P2036B Heating Capacity Ranges



Outdoor DB °F [°C]

Capacity Ranges FO*20R Series

(-)P2048B Cooling Capacity Ranges



Outdoor DB °F [°C]





Performance Data @ AHRI Standard Conditions – Heat Pump

Designated Tested Combination	ed Combination											
Outdoor Unit	Air Handler	Total Capacity BTU/H [kW]	Net Sensible BTU/H [kW]	Net Latent BTU/H [kW]	SEER	EER	Indoor CFM [L/s]	47 Degree Heating Capacity BTU/H [kW]	47 Degree COP	17 Degree Heating Capacity BTU/H [kW]	17 Degree COP	Region IV HSPF
F02420RVJCAB	F02420RVJCAB FH2421ELVJUC 22800 [6.7] 16600 [4.9]	22800 [6.7]	16600 [4.9]	6200 [1.8]	20.00	14.00	6200 [1.8] 20.00 14.00 800 [377.6]	22400 [6.6]	3.0	22800 [6.7]	2.0	11.0
F03620RVJCAB	-03620RVJCAB FH6021ELVJSC 35000 [10.3] 27400 [8.0]	35000 [10.3]	27400 [8.0]	7600 [2.2]	20.00	14.00	7600 [2.2] 20.00 14.00 1225 [578.1]	33000 [9.7]	3.0	37400 [11.0]	2.0	11.5
F04820RVJCAB	F04820RVJCAB FH6021ELVJSC 45500 [13.3] 34200 [10.0]	45500 [13.3]	34200 [10.0]	11300 [3.3]	19.50	12.50	11300 [3.3] 19.50 12.50 1575 [743.3]	42000 [12.3]	2.5	41000 [12.0]	2.0	11.0
F06020RVJCAB	F06020RVJCAB FH6021ELVJSC 54000 [15.8] 39000 [11.4]	54000 [15.8]	39000 [11.4]	15000 [4.4]	19.50	11.50	15000 [4.4] 19.50 11.50 1700 [802.3]	51000 [14.9]	2.5	47000 [13.8]	1.5	11.0

Note: Additional ratings and system match ups and downloadable ratings certificates can be accessed from the AHRI website: www.ahridirectory.org

[] Designates Metric Conversions

GUIDE SPECIFICATIONS

General

System Description

Outdoor-mounted, air-cooled, split-system heat pump unit suitable for ground or rooftop installation. Unit consists of a hermetic compressor, composite basepan, an air-cooled coil, propellertype condenser fan, suction and liquid line service valve, and a control box. Unit will discharge supply air upward as shown on contract drawings. Unit will be used in a refrigeration circuit to match up to a coil unit.

Quality Assurance

- Unit will be rated in accordance with the latest edition of AHRI Standard 210.
- Unit will be certified for capacity and efficiency, and listed in the latest AHRI directory.
- Unit construction will comply with latest edition of ANSI/ ASHRAE and with NEC.
- Unit will be constructed in accordance with UL standards and will carry the UL label of approval. Unit will have c-UL-us approval.
- Unit cabinet will be capable of withstanding ASTM B117 1000hr salt spray test.
- Air-cooled condenser coils will be leak tested at 150 psig and pressure tested at 550 psig.
- Unit constructed in ISO9001 approved facility.

Delivery, Storage, and Handling

 Unit will be shipped as single package only and is stored and handled per unit manufacturer's recommendations.

Warranty (for inclusion by specifying engineer) - U.S. and Canada only.

Products

Equipment

Factory assembled, single piece, air-cooled heat pump unit. Contained within the unit enclosure is all factory wiring, piping, controls, compressor, refrigerant charge R-410A, and special features required prior to field start-up.

Unit Cabinet

- Unit cabinet will be constructed of galvanized steel, bonderized, and coated with a powder coat paint.
- All units constructed with louver coil protection and corner post. Louver can be removed by removing one fastener per louver panel.

AIR-COOLED, SPLIT-SYSTEM HEAT PUMP FO*20R

2 TO 5 NOMINAL TONS

Fans

- Condenser fan will be direct-drive propeller type, discharging air upward.
- Condenser fan motors will be totally enclosed, 1-phase type with class B insulation and permanently lubricated bearings. Shafts will be corrosion resistant.
- Fan blades will be statically and dynamically balanced.
- Condenser fan openings will be equipped with coated steel wire safety guards.

Compressor

- Compressor will be hermetically sealed.
- Compressor will be mounted on rubber vibration isolators.
- Compressor will be Copeland fully variable speed.
- Condenser Coil
- Condenser coil will be air cooled.
- Coil will be constructed of aluminum fins mechanically bonded to copper tubes.
- **Refrigeration Components**
- Refrigeration circuit components will include liquid-line shutoff valve with sweat connections, vapor-line shutoff valve with sweat connections, system charge of R-410A refrigerant, and compressor oil.
- Unit will be equipped with filter drier for R-410A refrigerant for field installation.

Operating Characteristics

- The capacity of the unit will meet or exceed _____ Btuh at a suction temperature of _____ °F/°C. The power consumption at full load will not exceed _____ kW.
- Combination of the unit and the evaporator or fan coil unit will have a total net cooling capacity of _____ Btuh or greater at conditions of _____ CFM entering air temperature at the evaporator at _____ °F/°C wet bulb and _____ °F/°C dry bulb, and air entering the unit at _____ °F/°C.
- The system will have a SEER of _____ Btuh/watt or greater at DOE conditions.

Electrical Requirements

- Nominal unit electrical characteristics will be _____ v, single phase, 60 hz. The unit will be capable of satisfactory operation within voltage limits of _____ v to _____ v.
- Nominal unit electrical characteristics will be _____ v, three phase, 60 hz. The unit will be capable of satisfactory operation within voltage limits of _____ v to _____ v.
- Unit electrical power will be single point connection.
- Control circuit will be 24v.

Special Features

 Refer to section of this literature identifying accessories and descriptions for specific features and available enhancements.

GENERAL TERMS OF LIMITED WARRANTY*

Fujitsu General America, Inc. will furnish a replacement for any part of this product which fails in normal use and service within the applicable period stated, in accordance with the terms of the limited warranty.

*For complete details of the Limited and Conditional Warranties, including applicable terms and conditions, contact your local contractor or the Manufacturer for a copy of the product warranty certificate.

Conditional Unit Replacement	
(Registration Required)	Ten (10) Years
Parts	Ten (10) Years

Notes FO*20R Series

Before proceeding with installation, refer to installation instructions packaged with each model, as well as complying with all Federal, State, Provincial, and Local codes, regulations, and practices.

"In keeping with its policy of continuous progress and product improvement, the right is reserved to make changes without notice." PRINTED IN U.S.A. 7-19 QG FORM NO. PFJ-811 REV. 1