

FUJITSU

AIRSTAGE®

VRF

Variable Refrigerant  
Flow Systems



3, 4 and 5 tons

208-230V 1-Phase



3, and 4 tons



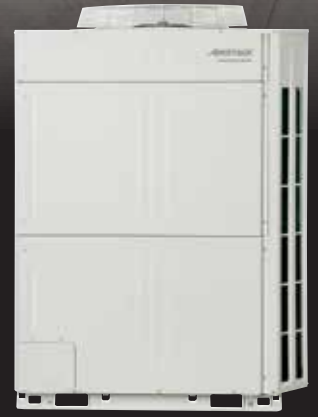
6, 8 and 10 tons

208-230V 3-Phase



6 Ton, 8 tons

208-230V 3-Phase, 460V 3-Phase



10 Ton

*J-II* HEAT PUMP

*J-III S* HEAT PUMP

*J-III L* HEAT PUMP

*V-II* HEAT PUMP

*VR-II* HEAT RECOVERY

# AIRSTAGE®

208-230V 1-PHASE:

**J-II** HEAT PUMP    **J-IIS** HEAT PUMP

208-230V 3-PHASE:

**J-III L** HEAT PUMP

208-230V 3-PHASE, 460V 3-PHASE:

**V-II** HEAT PUMP    **VR-II** HEAT RECOVERY

Airstage VRF systems provide an efficient heating and cooling solution for your entire building, using advanced controls and simple building management integration.

## HIGH ENERGY EFFICIENCY



**V-II / VR-II**

Up to 30.1 SCHE

Up to 24.1 IEER

**J-II / J-IIS**

Up to 19.8 SEER

Up to 11.4 HSPF



**J-III L**

Up to 24.2 IEER

Up to 4.19 COP

## THIRD PARTY ECONOMIZER AND FILTER BOXES

Fujitsu, through associated third parties, provides solutions to building energy consumption as well as indoor air quality. Ask Fujitsu about Economizer solution and Filter Box options for Airstage ducted units.





## HRV/ERV CLOUD-BASED CONTROL

Fujitsu General and Ventacity Systems have partnered to bring cloud control fresh air heating and cooling – at set point – to light commercial



applications such as schools, offices and dorms. Units ranging from 60 CFM to 3000 CFM are available. Ventacity systems are compatible with all Fujitsu Airstage VRF systems including both V and J-Series systems.

## VARIABLE REFRIGERANT FLOW SYSTEMS




For Small and Large Buildings




- Extensive lineup from 3 to 24 tons
- Connectible capacity ratio up to 150%
- 50 different indoor units available in 11 styles
- Up to 45 indoor units per one VRF system
- Three outdoor V-Series units may be combined with twinning kits to create up to 24 tons
- 10-Year Parts and Compressor Warranty. See Warranty Statement for details.
- Connect up to 36 tons of indoor units to a single VRF refrigerant circuit
- Extensive training for Engineers, Architects, Contractors and Distributors

## MULTIPLE COMMUNICATION OPTIONS

- BACnet Gateway (Hardware)
- LONWORKS Network Converter
- Modbus Converter
- Internet

# OUTDOOR UNITS LINEUP

<b>J-II Heat Pump Single Phase</b> 	<b>230V Heat Pump</b> 36,000 BTUh (3 Tons) AOU36RLAVM	<b>J-IIS Heat Pump Single Phase</b> 	<b>230V Heat Pump</b> 36,000 BTUh (3 Tons) AOU36RLAVS	<b>J-IIIIL Heat Pump Three Phase</b> 	<b>230V Heat Pump</b> 72,000 BTUh (6 Tons) AOU72RLAVL
	48,000 BTUh (4 Tons) AOU48RLAVM		48,000 BTUh (4 Tons) AOU48RLAVS		96,000 BTUh (8 Tons) AOU96RLAVL
	60,000 BTUh (5 Tons) AOU60RLAVM				120,000 BTUh (10 Tons) AOU120RLAVL

<b>V-II Heat Pump VR-II Heat Recovery 3-Phase</b> 	<b>230V Heat Pump</b> 72,000 BTUh (6 Tons) AOUA72RLBV1	<b>460V Heat Pump</b> 72,000 BTUh (6 Tons) AOUA72RLCV	<b>230V Heat Recovery</b> 72,000 BTUh (6 Tons) AOUA72TLBV	<b>460V Heat Recovery</b> 72,000 BTUh (6 Tons) AOUA72TLCV
	96,000 BTUh (8 Tons) AOUA96RLBV1	96,000 BTUh (8 Tons) AOUA96RLCV	96,000 BTUh (8 Tons) AOUA96TLBV	96,000 BTUh (8 Tons) AOUA96TLCV
	120,000 BTUh (10 Tons) AOUA120RLBV1	120,000 BTUh (10 Tons) AOUA120RLCV	120,000 BTUh (10 Tons) AOUA120TLBV	120,000 BTUh (10 Tons) AOUA120TLCV
	144,000 BTUh (12 Tons) AOUA144RLBVG1 AOUA72RLBV1 AOUA72RLBV1	144,000 BTUh (12 Tons) AOUA144RLCVG AOUA72RLCV AOUA72RLCV	144,000 BTUh (12 Tons) AOUA144TLBVG AOUA72TLBV AOUA72TLBV	144,000 BTUh (12 Tons) AOUA144TLCVG AOUA72TLCV AOUA72TLCV
	168,000 BTUh (14 Tons) AOUA168RLBVG1 AOUA72RLBV1 AOUA96RLBV1	168,000 BTUh (14 Tons) AOUA168RLCVG AOUA72RLCV AOUA96RLCV	168,000 BTUh (14 Tons) AOUA168TLBVG AOUA72TLBV AOUA96TLBV	168,000 BTUh (14 Tons) AOUA168TLCVG AOUA72TLCV AOUA96TLCV
	192,000 BTUh (16 Tons) AOUA192RLBVG1 AOUA72RLBV1 AOUA120RLBV1	192,000 BTUh (16 Tons) AOUA192RLCVG AOUA72RLCV AOUA120RLCV	192,000 BTUh (16 Tons) AOUA192TLBVG AOUA72TLBV AOUA120TLBV	192,000 BTUh (16 Tons) AOUA192TLCVG AOUA72TLCV AOUA120TLCV
	216,000 BTUh (18 Tons) AOUA216RLBVG1 AOUA96RLBV1 AOUA120RLBV1	216,000 BTUh (18 Tons) AOUA216RLCVG AOUA96RLCV AOUA120RLCV	216,000 BTUh (18 Tons) AOUA216TLBVG AOUA96TLBV AOUA120TLBV	216,000 BTUh (18 Tons) AOUA216TLCVG AOUA96TLCV AOUA120TLCV
	240,000 BTUh (20 Tons) AOUA240RLBVG1 AOUA120RLBV1 AOUA120RLBV1	240,000 BTUh (20 Tons) AOUA240RLCVG AOUA120RLCV AOUA120RLCV	240,000 BTUh (20 Tons) AOUA240TLBVG AOUA120TLBV AOUA120TLBV	240,000 BTUh (20 Tons) AOUA240TLCVG AOUA120TLCV AOUA120TLCV
	264,000 BTUh (22 Tons) AOUA264RLBVG1 AOUA72RLBV1 AOUA96RLBV1 AOUA96RLBV1	264,000 BTUh (22 Tons) AOUA264RLCVG AOUA72RLCV AOUA96RLCV AOUA96RLCV	264,000 BTUh (22 Tons) AOUA264TLBVG AOUA72TLBV AOUA96TLBV AOUA96TLBV	264,000 BTUh (22 Tons) AOUA264TLCVG AOUA72TLCV AOUA96TLCV AOUA96TLCV
	288,000 BTUh (24 Tons) AOUA288RLBVG1 AOUA96RLBV1 AOUA96RLBV1 AOUA96RLBV1	288,000 BTUh (24 Tons) AOUA288RLCVG AOUA96RLCV AOUA96RLCV AOUA96RLCV	288,000 BTUh (24 Tons) AOUA288TLBVG AOUA96TLBV AOUA96TLBV AOUA96TLBV	288,000 BTUh (24 Tons) AOUA288TLCVG AOUA96TLCV AOUA96TLCV AOUA96TLCV

## OUTDOOR UNIT NOMENCLATURE

MODEL	INDOOR BODY STYLE	CAPACITY	TYPE	COMPRESSOR	VOLTAGE	CLASS	CODE
AOU Outdoor Unit	Smaller Chassis	BTUhs in	R = Heat Pump	L = Inverter Driven	A = 208/230-1	V = VRF	G = Group**
	A Larger Chassis	Thousands	T = Heat Recovery		B = 208/230-3		M = Medium
					C = 460-3		S = Small
							L = Large

\*\*G is used in AHRI directory to refer to a Group of outdoor units, ex. AOUA168RLBVG is a grouping of one AOUA72RLBV and one AOUA96RLBV.

# INDOOR UNITS LINEUP

TLAV/TLAV1: Heat Recovery/ Heat Pump  
RLAV: Heat Pump

Compact Cassette <sup>1</sup> 	4,000 BTUh AUUA4TLAV1	7,000 BTUh AUUA7TLAV AUUA7RLAV*	9,000 BTUh AUUA9TLAV AUUA9RLAV*	12,000 BTUh AUUA12TLAV AUUA12RLAV*	14,000 BTUh AUUA14TLAV AUUA14RLAV*	18,000 BTUh AUUA18TLAV	24,000 BTUh AUUA24TLAV AUUA24RLAV*
4-Way Cassette <sup>2</sup> 	18,000 BTUh AUUB18TLAV AUUB18RLAV*	24,000 BTUh AUUB24TLAV	30,000 BTUh AUUB30TLAV	36,000 BTUh AUUB36TLAV			
Circular Flow Cassette 	18,000 BTUh AUUB18TLAV1	24,000 BTUh AUUB24TLAV1	30,000 BTUh AUUB30TLAV1	36,000 BTUh AUUB36TLAV1	48,000 BTUh AUUB48TLAV1		
Slim Compact Duct 	4,000 BTUh ARUL4TLAV1	7,000 BTUh ARUL7TLAV	9,000 BTUh ARUL9TLAV	12,000 BTUh ARUL12TLAV ARUL12RLAV*	14,000 BTUh ARUL14TLAV ARUL14RLAV*	18,000 BTUh ARUL18TLAV	
Med. Static Pressure Duct 	24,000 BTUh ARUM24TLAV	30,000 BTUh ARUM30TLAV ARUM30RLAV*	36,000 BTUh ARUM36TLAV ARUM36RLAV*				
High Static Pressure Duct 	36,000 BTUh ARUH36TLAV	48,000 BTUh <sup>3</sup> ARUH48TLAV ARUH48RLAV*	60,000 BTUh <sup>3</sup> ARUH60TLAV	72,000 BTUh <sup>4</sup> ARUH72TLAV	96,000 BTUh <sup>4</sup> ARUH96TLAV		
Vertical Air Handler Floor Mount 	12,000 BTUh ARUV12TLAV	18,000 BTUh ARUV18TLAV	24,000 BTUh ARUV24TLAV	30,000 BTUh ARUV30TLAV	36,000 BTUh ARUV36TLAV	48,000 BTUh <sup>3</sup> ARUV48TLAV	60,000 BTUh <sup>3</sup> ARUV60TLAV
Floor/Ceiling 	4,000 BTUh AGUA4TLAV1	7,000 BTUh AGUA7TLAV1	9,000 BTUh AGUA9TLAV1	12,000 BTUh AGUA12TLAV1	14,000 BTUh AGUA14TLAV1		
Ceiling 	12,000 BTUh ABUA12TLAV	14,000 BTUh ABUA14TLAV ABUA14RLAV*	18,000 BTUh ABUA18TLAV	24,000 BTUh ABUA24TLAV			
Compact Wall Mounted 	30,000 BTUh ABUA30TLAV	36,000 BTUh ABUA36TLAV ABUA36RLAV*					
Wall Mounted 	7,000 BTUh ASUA7TLAV*	9,000 BTUh ASUA9TLAV* ASUA9RLAV*	12,000 BTUh ASUA12TLAV*	14,000 BTUh ASUA14TLAV* ASUA14RLAV*			
Wall Mounted 	4,000 BTUh ASUA4TLAV1	7,000 BTUh ASUA7TLAV1	9,000 BTUh ASUA9TLAV1	12,000 BTUh ASUA12TLAV1	14,000 BTUh ASUA14TLAV1		
Wall Mounted 	18,000 BTUh ASUB18TLAV*	24,000 BTUh ASUB24TLAV*					
Wall Mounted 	18,000 BTUh ASUB18TLAV1	24,000 BTUh ASUB24TLAV1	30,000 BTUh ASUB30TLAV1	36,000 BTUh ASUB36TLAV1			
Outside Air Unit 	48,000 BTUh <sup>3</sup> AAUA48TLAV	72,000 BTUh <sup>4</sup> AAUA72TLAV	96,000 BTUh <sup>4</sup> AAUA96TLAV				

\*While supplies last. 1. Compact Cassette Grille UTG-CCGV sold separately. Must order one with each Compact Cassette. 2. Cassette Grille UTG-LCGV sold separately. Must order one with each Cassette. 3. J-Series compatibility is dependent on outdoor unit capacity. 4. Not compatible with J-Series.


## INDOOR UNIT NOMENCLATURE

Model		Indoor Body Style		Capacity	Type	Compressor		Voltage		Class		
ASU	Wall Mount	A	Smaller Chassis	BTUhs in	R =	Heat Pump	L =	Inverter Driven	A =	208/230-1	V =	VRF
ABU	Universal/Ceiling	B	Larger Chassis	Thousands	T =	Heat Pump or Heat Recovery						
ARU	Ducted	L	Low Static	(e.g.)								
AUU	Cassette	M	Medium Static	4, 7, 9, 12,								
AAU	DOA	H	High Static	14, 18, 24,								
AGU	Floor Mount	V	Vertical Air Handler	etc.)								


\* 1, 2 or 3 at the end of a model number denotes a model revision. Please note models may not be combined with each other.

## Remote Controls



**Touch Remote Control**  
UTY-RNRUZ2





**Wired Remote Control**  
UTY-RNKU




**Simple Remote Control**

<p>UTY-RSRY With mode selector</p> 	<p>UTY-RHRY Without mode selector</p> 
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**Simple Remote Control**

<p>UTY-RSKU With mode selector</p> 	<p>UTY-RHKU Without mode selector</p> 
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**Wireless Remote Control**  
UTY-LNHU



**Wi-fi Interface Module**  
FJ-RC-WIFI-1NA



**Wi-fi Interface Module**  
UTY-TFNXZ2

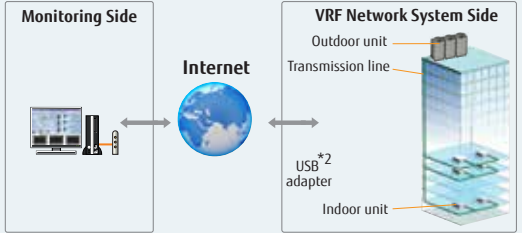




## Service & Monitoring

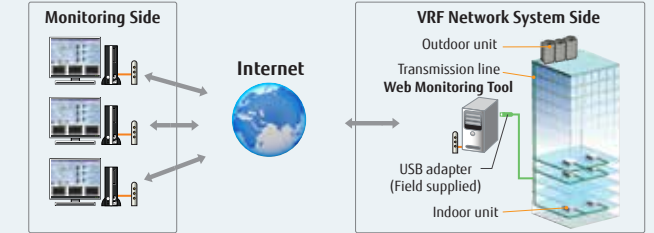
**Service Tool** Software

UTY-ASGXZ1

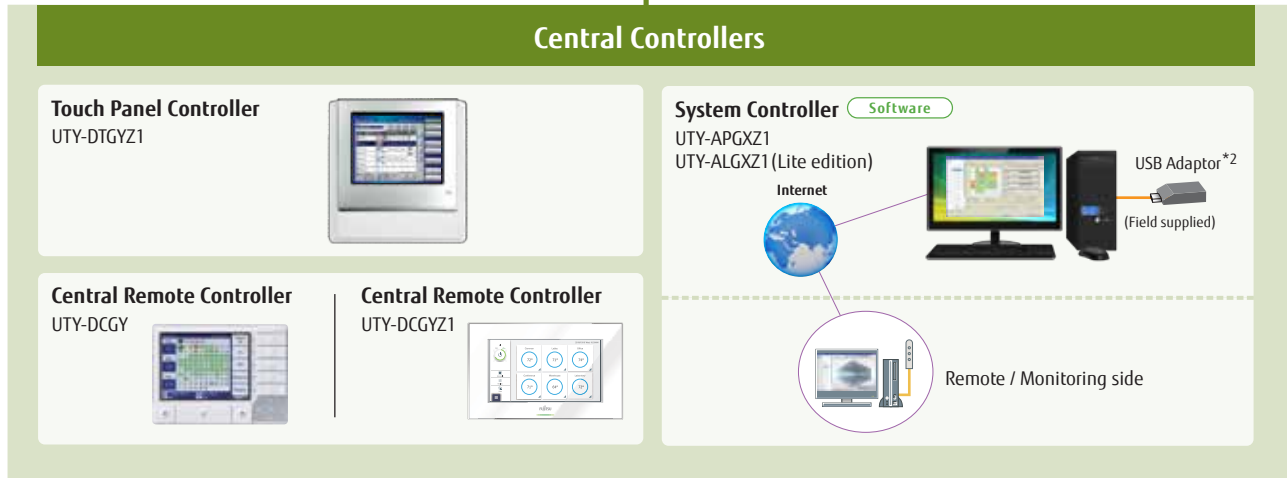


**Web Monitoring System** Software

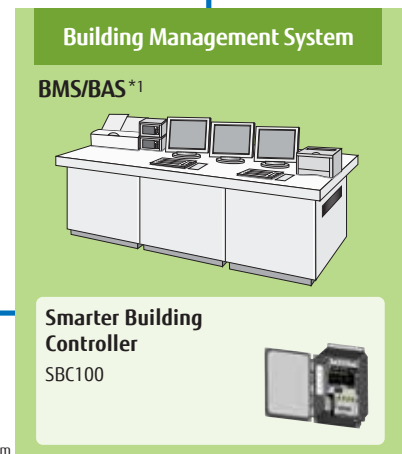
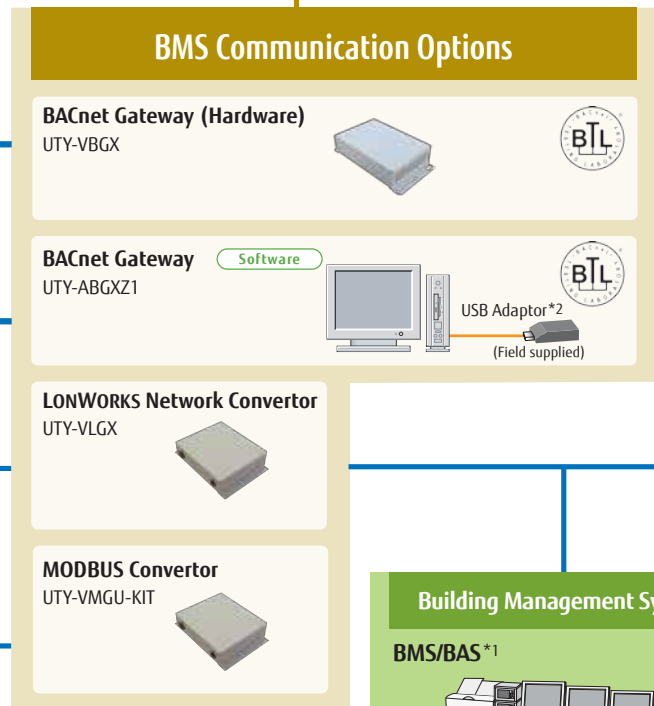
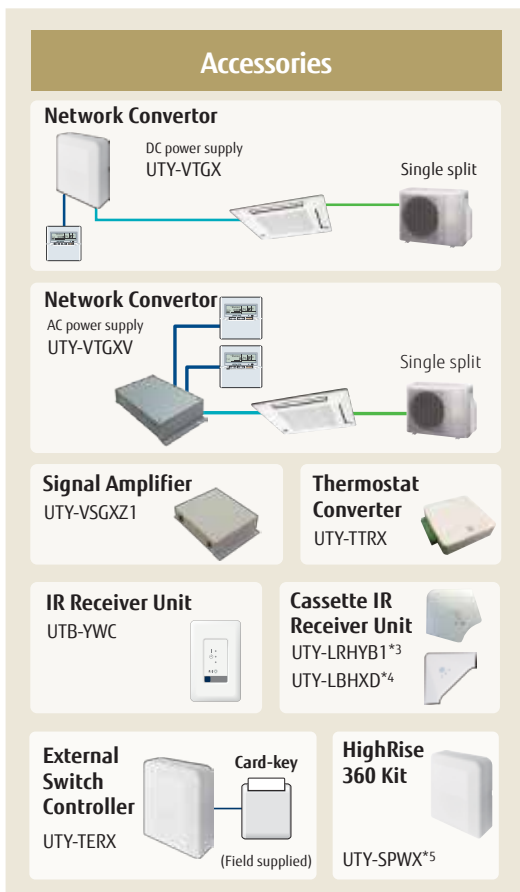
UTY-AMGXZ1



# CONTROL SYSTEMS OVERVIEW



For all Airstage VRF and J-Series



\*1. BMS/BAS: Building Management System / Building Automation System  
 \*2. USB Adaptor is U10 USB Network Interface of Echelon® Corporation  
 \*3. For Cassette  
 \*4. For Circular Flow Cassette  
 \*5. For V-II only

# CASE STUDIES



## FRATERNITY HOUSE, MSU - 45 TONS - LANSING, MI

### CHALLENGE

- Expansion required to 65 year old structure
- A/C only in certain areas
- No space for ductwork
- Single phase electricity

### SOLUTION

- 9 Single phase VRF systems
- 45 Total tons supplying 61 indoor units
- Ultra-efficient heating and cooling
- Maximum zoned comfort



## HOTEL - 120 TONS - LEXINGTON, VA

### CHALLENGE

- Maintaining integrity of a historic building
- Many unique spaces including a restaurant, conference space, retail space and 39 guest rooms
- No existing HVAC system

### SOLUTION

- 120 Tons in 18 refrigeration systems
- 19 Outdoor units supplying 80 indoor units of different styles
- No ductwork required
- 70% More competitive than alternatives



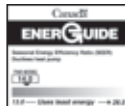
## CHURCH - 28 TONS - BAY SHORE, NY

### CHALLENGE

- Ornate architecture required non-obtrusive indoor units
- No existing cooling system
- System must be quiet to not disturb worshipers

### SOLUTION

- 28 Total tons supplying 14 indoor units
- Wall mounted indoor units blend with current aesthetics
- Highly efficient zoned heating and cooling
- Indoor units are whisper quiet



- Specifications and design are subject to change without notice for future improvement. For further details, please check with an authorized distributor.
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