

FUJITSU



MINI-SPLIT AIR CONDITIONERS  
AND HEAT PUMPS



SINGLE ZONE COMPACT CASSETTE AND  
SLIM DUCT 9, 12, 18,000 BTU/h SYSTEMS  
CEILING CASSETTE SYSTEMS 9RLFCC, 12RLFCC, 18RLFCC  
SLIM DUCT SYSTEMS 9RLFCD, 12RLFCD, 18RLFCD



# SINGLE ZONE COMPACT CASSETTES AND SLIM DUCTS

9, 12, AND 18,000 BTU/h SYSTEMS



SLIM DUCT
System 9RLFCD • ARU9RLF (Indoor) • AOU9RLFC (Outdoor)
System 12RLFCD • ARU12RLF (Indoor) • AOU12RLFC (Outdoor)
System 18RLFCD • ARU18RLF (Indoor) • AOU18RLFC (Outdoor)



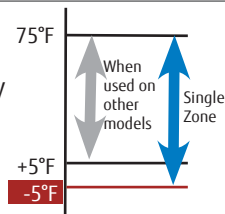
COMPACT CASSETTE
System 9RLFCC • AUU9RLF (Indoor) • AOU9RLFC (Outdoor)
System 12RLFCC • AUU12RLF (Indoor) • AOU12RLFC (Outdoor)
System 18RLFCC • AUU18RLF (Indoor) • AOU18RLFC (Outdoor)

Slim Ducts and Compact Cassettes are ideal for commercial applications such as offices, restaurants, convenience stores, motels, dorms, in retrofit and new construction.

## FEATURES

### HIGH PERFORMANCE HEATING

Heating capacity at low outdoor temperatures is achieved by adopting a large heat exchanger and a high capacity compressor. Systems operate down to -5°F.



### ENERGY EFFICIENT

4 systems feature high efficiencies and are ENERGY STAR® Qualified, meaning lower utility bills for home and business owners.



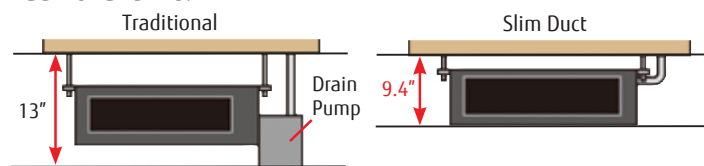
Systems 9/12RLFCD  
Systems 9/12RLFCC

Up to 24.0 SEER

## SLIM DUCT FEATURES

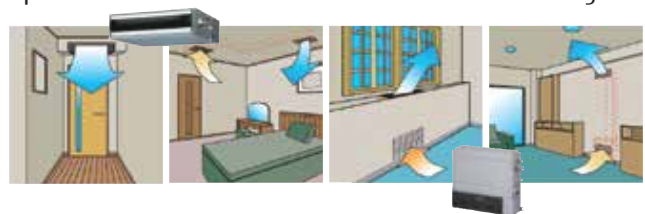
### BUILT IN DRAIN PUMP

Allows for installation of slim duct unit in smaller spaces than traditional units.



### FLEXIBLE INSTALLATION

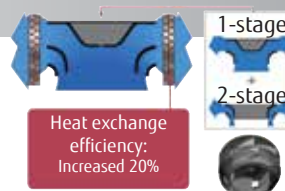
Horizontal or vertical. Note: Internal drain pump will not operate when the unit is mounted in a vertical configuration.



## COMPACT CASSETTE FEATURES

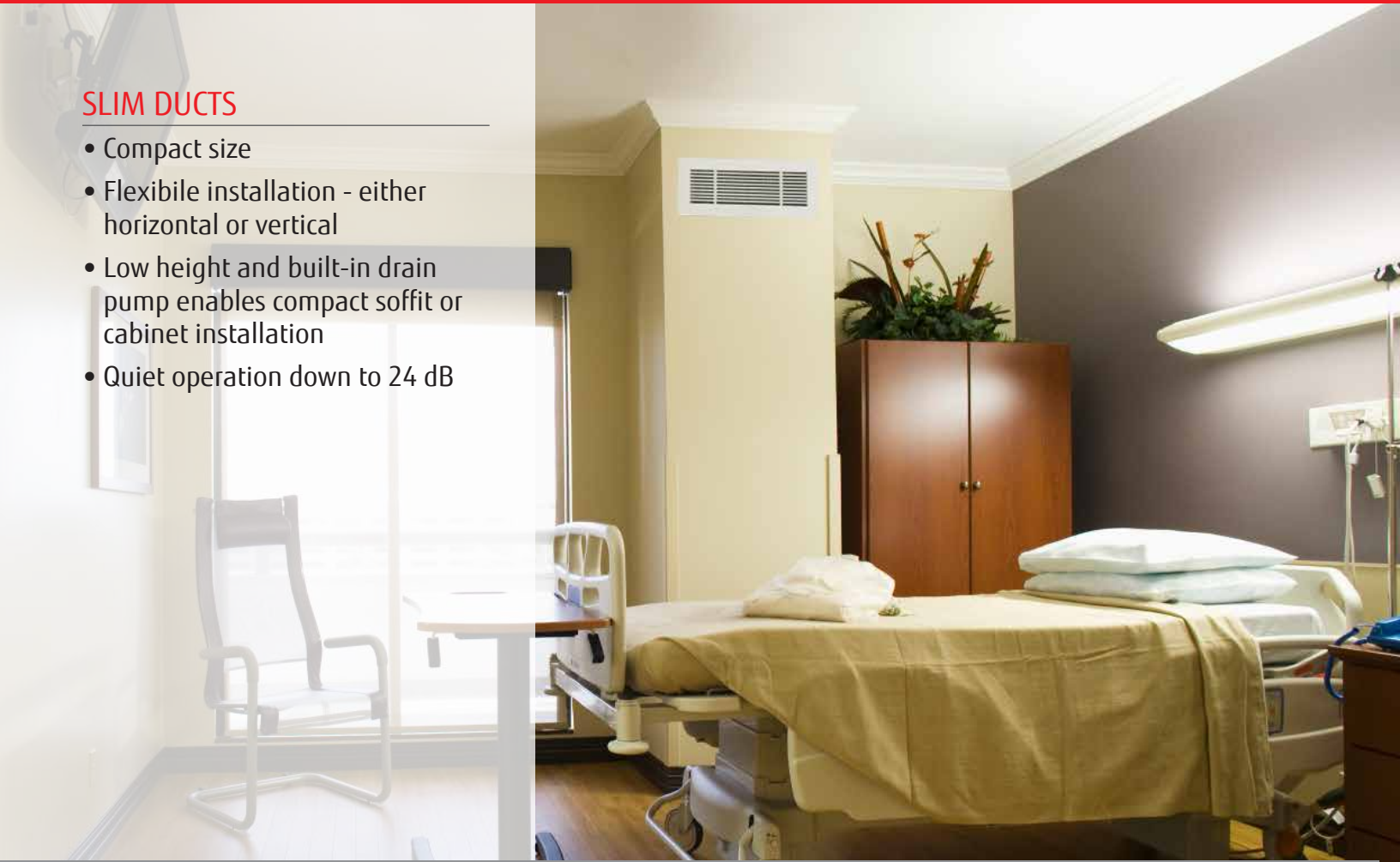
### 2-STAGE TURBO FAN

Air distribution is evenly spread across the heat exchanger by the 2 stage turbo fan which produces two separate airflow streams.



## SLIM DUCTS

- Compact size
- Flexible installation - either horizontal or vertical
- Low height and built-in drain pump enables compact soffit or cabinet installation
- Quiet operation down to 24 dB



## COMPACT CASSETTES

- Compact size (22- $\frac{1}{2}$ " x 22- $\frac{1}{2}$ " ) fits into a standard ceiling tile\*
- 4-Way airflow
- 2-Stage turbo fan distributes air evenly across a heat exchanger producing two separate airflow streams
- Can operate in limited space above the drop ceiling

\*Dimensions of outer grille are 27-9/16" x 27-9/16" and may overlap adjacent tiles.



# SLIM DUCTS

## SYSTEMS 9RLFCD, 12RLFCD, 18RLFCD



### STANDARD FEATURES

- Wireless Remote Control
- Weekly Timer
- Dry Mode
- Auto Mode
- Economy Mode
- Auto Restart/Reset
- Auto Changeover
- Low Ambient Cooling
- Cold Prevention
- Daisy Chain
- Built-In Condensate Pump
- Third Party Device Control<sup>^</sup>

<sup>^</sup>Operation monitoring and On/Off control only.

### ACCESSORIES

- Backlit Wired Remote Control UTY-RVNUM  
Displays room temp.
- Simple Remote Controller: UTY-RSNUM
- Wireless Remote Receiver Unit: UTY-LRHUM
- Remote Sensor: UTY-XSZX
- Slim Duct Connector Kit: UTD-ECS5A

### FIELD SUPPLIED FILTERS

Filters are sized to keep velocities and static pressure loss low. This will insure sufficient static pressure is available for ductwork, fittings and supply and return grilles. Alternative filter sizes with equivalent face areas can be used.

	ARU 9RLF	ARU 12RLF	ARU 18RLF
CFM	353	383	547
Typical Filter Size	12 x 20	12 x 20	14 x 25
Velocity, FPM	212	230	228
Unit External SP, in. W.C.	0.36	0.36	0.36
1" Fiberglass Filter			
SP Loss, in. W.C.	0.04	0.05	0.04
Available Static Pressure	0.32	0.31	0.32
1" MERV 8 Pleated Filter			
SP Loss, in. W.C.	0.12	0.14	0.14
Available Static Pressure	0.24	0.22	0.22
2" MERV 8 Pleated Filter			
SP Loss, in. W.C.	0.07	0.08	0.08
Available Static Pressure	0.29	0.28	0.28

	9RLFCD HEAT PUMP 	12RLFCD HEAT PUMP 	18RLFCD HEAT PUMP 
Nominal Cooling BTU/h	9,000	12,000	18,000
Min~Max Cooling BTU/h	3,100~12,000	3,100~13,600	3,100~20,100
Nominal Heating BTU/h	12,000	16,000	21,600
Min~Max Heating BTU/h	3,100~18,000	3,100~19,400	3,100~25,600
HSPF	12.2	11.5	11.3
SEER	21.5	20.0	19.7
EER Clg	14.5	12.8	12.0
Cooling Operating Range °F(°C)	14~115 (-10~46)	14~115 (-10~46)	14~115 (-10~46)
Heating Operating Range °F(°C)	-5~75 (-21~24)	-5~75 (-21~24)	-5~75 (-21~24)
Moisture Removal Pt./h(l/h)	1.5 (.07)	2.7 (1.3)	4.2 (2.0)
Voltage/Frequency/Phase	208-230/60/1	208-230/60/1	208-230/60/1
MAX.CRT.BKR (A)	15	15	20
Static Pressure In. W. C.	0 ~ 0.36	0 ~ 0.36	0 ~ 0.36
Air Circ. C.F.M. (m³/h) Clg/Htg: Hi	353 (600)	383 (650)	554 (940)
Medium	324 (550)	353 (600)	518 (880)
Low	294 (500)	324 (550)	483 (820)
Quiet	265 (450)	283 (480)	442 (750)
Noise Level dB(A) (Clg/Htg): Hi	28/28	29/29	32/32
Medium	27/26	28/28	30/30
Low	26/25	27/27	29/29
Quiet	25/24	26/24	27/27
Outdoor Noise Level Clg/Htg	48/49	49/50	54/55
Running Current Rated (A)Clg/Htg	3.0/3.9	4.4/6.0	6.6/7.3
Power Use Rated/Max (kW): Cooling	0.62/1.40	0.94/1.45	1.50/2.15
Heating	0.85/1.80	1.30/2.00	1.67/2.60
Fan Speeds Stage	4 + Auto	4 + Auto	4 + Auto
Air Filter	Washable	Washable	Washable
Connection Method	Flare	Flare	Flare
Combined Min. Length Ft (m)	10 (3)	10 (3)	10 (3)
Combined Max. Length Ft (m)	66 (20) (pre-charge: 49')	66 (20) (pre-charge: 49')	66 (20) (pre-charge: 49')
Max. Vertical Diff. Ft (m)	49 (15)	49 (15)	49 (15)
Conn. Pipe Diameter Inch	suc 3/8 dis 1/4	suc 3/8 dis 1/4	suc 1/2 dis 1/4
Indoor Unit Net Weight lbs. (kg)	41 (19)	41 (19)	50 (23)
Outdoor Unit Net Weight lbs. (kg)	84 (38)	84 (38)	86 (39)
Indoor Unit Dimensions: Height Inch (mm)	7-25/32 (198)	7-25/32 (198)	7-25/32 (198)
Width Inch (mm)	27-9/16 (700)	27-9/16 (700)	35-7/16 (900)
Depth Inch (mm)	24-13/32 (620)	24-13/32 (620)	24-13/32 (620)
Supply Duct Flange Dimensions: Height Inch (mm)	5-15/16 (151)	5-15/16 (151)	5-15/16 (151)
Width Inch (mm)	25-19/32 (650)	25-19/32 (650)	33-15/32 (850)
Depth Inch (mm)	3/4 (19)	3/4 (19)	3/4 (19)
Return Duct Dimensions: Height Inch (mm)	6 (152)	6 (152)	6 (152)
Width Inch (mm)	22 (559)	22 (559)	30 (762)
Depth Inch (mm)	3/4 (19) (Flat)	3/4 (19) (Flat)	3/4 (19) (Flat)
Outdoor Unit Dimensions: Height Inch (mm)	24-1/2 (620)	24-1/2 (620)	24-1/2 (620)
Width Inch (mm)	31-3/32 (790)	31-3/32 (790)	31-3/32 (790)
Depth Inch (mm)	11-11/32 (290)	11-11/32 (290)	11-11/32 (290)
Refrigerant	R410A	R410A	R410A

Note: Figures are based on 230 Volts.

# COMPACT CASSETTES

## SYSTEMS 9RLFCC, 12RLFCC, 18RLFCC



### STANDARD FEATURES

- Wireless Remote Control
- Weekly Timer
- Dry Mode
- Auto Louver: Up/ Down
- Auto Mode
- Minimum Heat\*
- Economy Mode
- Auto Restart/Reset
- Auto Changeover
- Low Ambient Cooling
- Cold Prevention
- Daisy Chain
- High Ceiling Mode
- Built-In Condensate Pump
- Fresh Air Intake\*\*
- Third Party Device Control^

### ACCESSORIES

- Wired Remote Controller: UTY-RVNUM  
Backlit and includes room temperature
- Simple Remote Controller: UTY-RSNUM
- Wireless Remote Controller: UTY-LNHUM
- Dry Contact Wire Kit: UTY-XWZX
- High Humidity Insulation Kit: UTZ-KXGC
- Fresh Air Intake Kit: UTZ-VXAA
- Air Outlet Shutter Plate: UTR-YDZB



Fresh Air Kit\*\*  
UTZ-VXAA  
Mixes room air then passes through the heat exchanger.

\* Available only with optional wireless remote control.

\*\*Requires Fujitsu's Optional Fresh Air Kit part #UTZ-VXAA. Allows for a 4-inch flex duct connection. Requires a field supplied duct booster fan capable of 60 CFM at .2"W.C. or 90 CFM at .4"W.C. For fan static pressure requirements, see installation manual. Add hood, filter and duct losses for fan total static pressure requirements. Will add 4" to the height of the indoor unit.

^ Operation monitoring and On/Off control only.

	9RLFCC HEAT PUMP	12RLFCC HEAT PUMP	18RLFCC HEAT PUMP
Nominal Cooling BTU/h	9,000	12,000	18,000
Min~Max Cooling BTU/h	3,100~12,000	3,100~13,600	3,100~20,100
Nominal Heating BTU/h	12,000	16,000	21,600
Min~Max Heating BTU/h	3,100~18,000	3,100~19,400	3,100~25,600
HSPF	13.0	12.2	11.5
SEER	24.0	21.9	20.1
EER Clg	14.5	12.8	11.2
Cooling Operating Range °F(°C)	14~115 (-10~46)	14~115 (-10~46)	14~115 (-10~46)
Heating Operating Range °F(°C)	-5~75 (-21~24)	-5~75 (-21~24)	-5~75 (-21~24)
Moisture Removal Pt./h(l/h)	1.3 (.06)	2.5 (1.2)	4.6 (2.2)
Voltage/Frequency/Phase	208-230/60/1	208-230/60/1	208-230/60/1
MAX.CRT.BKR (A)	15	15	20
Air Circ. C.F.M. (m³/h): Hi	318 (540)	359 (610)	400 (680) Clg 471 (800) Htg
Medium	288 (490)	312 (530)	341 (580) Clg 400 (680) Htg
Low	259 (440)	277 (470)	288 (490) Clg 341 (580) Htg
Quiet	230 (390)	241 (410)	241 (410) Clg 265 (450) Htg
Noise Level dB(A) Clg/Htg: Hi	33/34	37/37	40/44
Medium	32/32	33/33	36/40
Low	29/29	31/31	32/36
Quiet	28/27	28/28	28/30
Outdoor Noise Level Clg/Htg	48/49	49/50	54/55
Running Current Rated (A): Cooling	3.0	4.4	7.1
Heating	4.1	6.7	7.7
Power Use Rated/Max (kW): Clg	0.62/1.40	0.94/1.45	1.61/2.15
Heating	0.89/1.80	1.44/2.00	1.76/2.60
Fan Speeds Stage	4+auto	4+auto	4+auto
Air Direction: Vertical	Automatic	Automatic	Automatic
Air Filter	Washable	Washable	Washable
Front Grille	UTG-CCGF*	UTG-CCGF*	UTG-CCGF*
Connection Method	Flare	Flare	Flare
Conn. Pipe Diameter Inch	suc 3/8 dis 1/4	suc 3/8 dis 1/4	suc 1/2 dis 1/4
Combined Min. Length Ft (m)	10 (3)	10 (3)	10 (3)
Combined Max. Length Ft (m)	66 (20) (pre-charge: 49')	66 (20) (pre-charge: 49')	66 (20) (pre-charge: 49')
Max. Vertical Diff. Ft (m)	49 (15)	49 (15)	49 (15)
Indoor Unit Net Weight lbs. (kg)	33 (15)	33 (15)	33 (15)
Outdoor Unit Net Weight lbs. (kg)	84 (38)	84 (38)	86 (39)
Indoor Unit Dim: Height Inch (mm)	9-11/16 (245)	9-11/16 (245)	9-11/16 (245)
Width Inch (mm)	22-7/16 (570)	22-7/16 (570)	22-7/16 (570)
Depth Inch (mm)	22-7/16 (570)	22-7/16 (570)	22-7/16 (570)
Grille Dim: Height Inch (mm)	1-15/16 (49)	1-15/16 (49)	1-15/16 (49)
Width Inch (mm)	27-9/16 (700)	27-9/16 (700)	27-9/16 (700)
Depth Inch (mm)	27-9/16 (700)	27-9/16 (700)	27-9/16 (700)
Outdoor Unit Dim: Height Inch (mm)	24-1/2 (620)	24-1/2 (620)	24-1/2 (620)
Width Inch (mm)	31-3/32 (790)	31-3/32 (790)	31-3/32 (790)
Depth Inch (mm)	11-11/32 (290)	11-11/32 (290)	11-11/32 (290)
Refrigerant	R410A	R410A	R410A

\* Compact Cassette Grille UTG-CCGF sold separately. Must order one with each compact cassette.  
Note: Figures are based on 230 Volts.



# APPLICATIONS

FOR SINGLE ZONE COMPACT CASSETTE AND SLIM DUCT MODELS

## NURSING HOMES, HOSPITALS



COMPACT CASSETTE  
SYSTEM 9RLFCC  
SYSTEM 12RLFCC  
SYSTEM 18RLFCC



## SMALL OFFICES



## HOTELS, MOTELS



## MULTI-TENANT DWELLINGS



## DORM ROOMS



SLIM DUCT  
SYSTEM 9RLFCD  
SYSTEM 12RLFCD  
SYSTEM 18RLFCD

## SPOT COOLING OR HEATING



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\*Applies when properly registered AND installed by a Fujitsu Elite Contractor in a residence. See full warranty for details.

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