



# Single Zone Compact Cassettes and Compact Ducts

## Mini-Split Air Conditioners and Heat Pumps



With the addition of only three outdoor models to the line, contractors can now create six new systems

### Compact Cassette

#### System 9RLFCC

- AUU9RLF
- AOU9RLFC

#### System 12RLFCC

- AUU12RLF
- AOU12RLFC

#### System 18RLFCC

- AUU18RLF
- AOU18RLFC



### Compact Duct

#### System 9RLFCD

- ARU9RLF
- AOU9RLFC

#### System 12RLFCD

- ARU12RLF
- AOU12RLFC

#### System 18RLFCD

- ARU18RLF
- AOU18RLFC



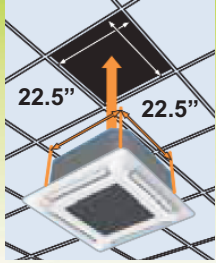
# Compact Cassettes

SYSTEMS 9RLFCC, 12RLFCC, 18RLFCC



## Easy Installation

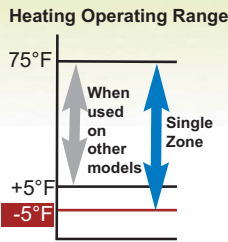
Fits into a standard ceiling tile\*.



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

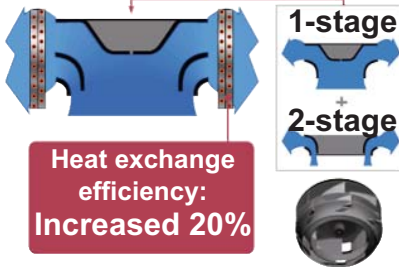
## High Performance Heating

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.



## 2-Stage Turbo Fan

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



## Standard Features

- Wired Remote Control
- Sleep Timer
- Dry Mode
- Auto Louver: Up/ Down
- Quiet Mode
- Auto Restart/Reset
- Remote Temperature Sensor
- High Ceiling Mode
- Condensate Pump
- 2-Stage Turbo Fan
- Minimum Heat Mode+
- Fresh Air Intake\*\*

## Optional Accessories

- Backlit Wired Remote Control UTY-RVNUM
- Wireless Remote Controller UTY-LNHUM



	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/Htg	14.5/13.5	12.8/11.1	11.2/12.3
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 (0.6)	2.5 (1.2)	4.6 (2.2)
Voltage/Frequency/Phase	208-230/60/1	208-230/60/1	208-230/60/1
Recommended Fuse Size (A)	15	15	20
Air Circ. C.F.M. (m <sup>3</sup> /h): Hi	318 (540)	359 (610)	400 (680) Clg
Medium	288 (490)	312 (530)	471 (800) Htg
Low	259 (440)	277 (470)	341 (580) Clg
Quiet	230 (390)	241 (410)	400 (680) Htg
Noise Level dB(A) Clg/Htg: Hi	33/34	37/37	288 (490) Clg
Medium	32/32	33/33	341 (580) Htg
Low	29/29	31/31	241 (410) Clg
Quiet	28/27	28/28	265 (450) Htg
Outdoor Fan Speed RPM Clg/Htg	590/720	870/780	1,050/1,000
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 Max. Length Ft (m)	66 (20)	66 (20)	66 (20)
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

+ 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.

\* Compact Cassette Grille UTG-CCGF sold separately. Must order one with each compact cassette.



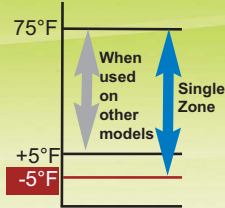
# Compact Ducts

SYSTEMS 9RLFCD, 12RLFCD, 18RLFCD



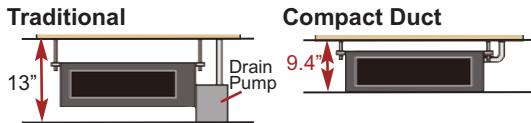
## High Performance Heating

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.



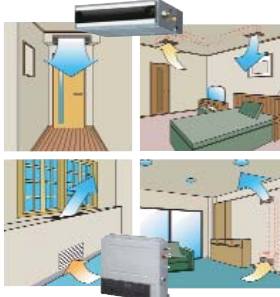
## Compact Duct

Built-in drain pump allows for installation of compact duct unit in smaller spaces than traditional units.



## Flexible Installation

Horizontal or vertical\*.



\*Internal drain pump will not operate when the unit is mounted in a vertical configuration.

## Standard Features

- Wired Remote Control
- Dry Mode
- Weekly Timer
- Auto Mode
- Quiet Mode
- Auto Restart/Reset
- Built In Condensate Pump
- Fresh Air Intake

## Optional Accessories

- Backlit Wired Remote Control UTY-RVNUM
- Wireless Remote and Receiver Unit UTY-LRHUM



	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/Htg	14.5/14.1	12.8/12.3	12.0/12.9
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 (0.7)	2.7 (1.3)	4.2 (2.0)
Voltage/Frequency/Phase	208-230/60/1	208-230/60/1	208-230/60/1
Recommended Fuse Size (A)	15	15	20
Static Pressure In. W. C.	0 ~ 0.36	0 ~ 0.36	0 ~ 0.36
Air Circ. C.F.M. (m <sup>3</sup> /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 Fan Speed RPM Clg/Htg	590/720	870/780	870/1,000
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 Max. Length Ft (m)	66 (20)	66 (20)	66 (20)
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	5-15/16 (151)	5-15/16 (151)	5-15/16 (151)
Dimensions: Height Inch (mm)	25-19/32 (650)	25-19/32 (650)	33-15/32 (850)
Width Inch (mm)	3/4 (19)	3/4 (19)	3/4 (19)
Depth Inch (mm)	6-27/32 (174)	6-27/32 (174)	6-27/32 (174)
Return Duct Flange	22-19/32 (574)	22-19/32 (574)	30-15/32 (774)
Dimensions: Height Inch (mm)	3/4 (19) (Flat)	3/4 (19) (Flat)	3/4 (19) (Flat)
Width Inch (mm)	24-1/2 (620)	24-1/2 (620)	24-1/2 (620)
Depth Inch (mm)	31-3/32 (790)	31-3/32 (790)	31-3/32 (790)
Outdoor Unit Dimensions: Height Inch (mm)	11-11/32 (290)	11-11/32 (290)	11-11/32 (290)
Width Inch (mm)	11-11/32 (290)	11-11/32 (290)	11-11/32 (290)
Depth Inch (mm)	11-11/32 (290)	11-11/32 (290)	11-11/32 (290)
Refrigerant	R410A	R410A	R410A

## 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	353	547
Typical Filter Size	12 x 20	12 x 20	14 x 25
Velocity, FPM	212	212	225
Unit External SP, in. W.C.	0.36	0.36	0.36
1" Fiberglass Filter			
SP Loss, in. W.C.	0.04	0.04	0.04
Available Static Pressure	0.32	0.32	0.32
1" MERV 8 Pleated Filter			
SP Loss, in. W.C.	0.12	0.12	0.14
Available Static Pressure	0.24	0.24	0.22
2" MERV 8 Pleated Filter			
SP Loss, in. W.C.	0.07	0.07	0.08
Available Static Pressure	0.29	0.29	0.28



# Applications

## FOR SINGLE ZONE COMPACT CASSETTE AND COMPACT DUCT MODELS

### Nursing Homes, Hospitals



#### Compact Cassette

System 9RLFCC  
System 12RLFCC  
System 18RLFCC



### Small Offices



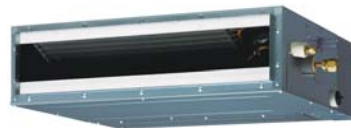
### Hotels, Motels



### Multi-Tenant Dwellings



### Dorm Rooms



#### Compact Duct

System 9RLFCD  
System 12RLFCD  
System 18RLFCD

### Spot Cooling or Heating



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