

# Ducted Split Unit

20kW~104kW  
5.6Ton~29.6Ton



## Application areas

- Wide application as hotel, apartment, villa, factory, shopping center, office building, school, etc.

## Why this choice?

- High efficiency: Adopts famous brand compressor, multi-level adjustment, high efficiency anti-corrosion hydrophilic aluminum foil, which make the efficiency up to 30%.
- Extraordinary performance: Adopts well-know brand opponents, such as EMERSON, SPORLAN, DANFOSS brand etc.
- Intelligent control: Micro computer control, cooling, heating, auto, ventilation can be free switching.



## Characteristics

11 sizes available ranging from 19.5 kW to 103.7 kW cooling capacity.

Cooling only and heat pump version.  
Wide application as hotel, apartment, villa, factory, shopping center, office building, school, etc.

Panels and frame are made from metal steel protected with polyester powder painting to ensure total resistance to atmospheric agents.

High efficiency scroll compressor for the whole range, with built-in thermal overload cut-out and crankcase heater, mounted on rubber vibration dampers.

Compact indoor design, long air supply distance.

Outdoor units are equipped with low noise axial fans.

Indoor units are equipped with quiet centrifugal fans.



Split installation, connected by means of flare/welding coupling.

Easy operation line controller:

- Cooling/Heating/Fan/Auto
- Error indication
- Timing On/Off
- Multi safety protection
- High/low pressure protection

- Overheat protection
- Current overload protection
- Phase sequence relay
- Time delay and antifreeze switch

### Optional

- Additional electric heater on indoor unit
- Additional heating coil on indoor unit

## Technical Data

Model	Unit	AA20	AA25	AA32	AA36	AA42	AA48	
Nominal cooling capacity*	kW	19.5	24.8	31.2	35.6	41.3	47.4	
	Ton	5.6	7.1	8.9	10.2	11.8	13.5	
Nominal heating capacity**	kW	22.6	28.9	35.8	40.8	46.9	54.4	
	Ton	6.5	8.3	10.2	11.7	13.4	15.5	
Connection								
Method	/	Flare	Flare	Flare	Welding	Welding	Welding	
Liquid pipe diameter	∅ mm	9.52x2	12.7x2	12.7x2	15.88x1	15.88/12.7	15.88/12.7	
Gas pipe diameter	∅ mm	15.88x2	19.05x2	19.05x2	28x1	28/19.05	28/19.05	
Power supply	/	230V/3N/60Hz						
Compressor								
Outdoor unit	Qty/refrigerant circuit	Nr.	2/2	2/2	2/2	1/1	2/2	
	Cooling power input*	kW	7.2	9.3	11.8	12.8	15.1	17.9
	Heating power input**	kW	7.13	9.21	11.68	12.67	14.95	17.72
	Energy adjustment	%	50-100	50-100	50-100	0-100	40-60-100	33-66-100
	Axial fans							
Outdoor unit	Quantity	Nr.	1	1	1	1	2	
	Airflow	m <sup>3</sup> /h	9400	9400	12500	14200	18800	18800
	Sound pressure level***	dB(A)	67	67	68	70	71	71
	Net weight	kg	170	180	220	280	260	280
	Centrifugal fans							
Indoor unit	Quantity	Nr.	2	2	2	2	2	
	Airflow	m <sup>3</sup> /h	3500	4500	5650	6450	7400	8550
	ESP	Pa	120	100	150	130	180	200
	Sound pressure level***	dB(A)	64	64	66	66	68	68
	Net weight	kg	90	100	150	160	180	200
Additional electric heater****	kW	2x3	2x4	2x5	2x6	2x6	2x8	
Additional heating coil****	kW	22.2	28.4	35.1	40.0	46.0	53.3	

Performance values refer to the following conditions:

\* Cooling capacity is measured under the condition: indoor temperature DB 27°C / WB 19°C, ambient temperature DB 35°C / WB 24°C.

\*\* Heating capacity is measured under the condition: indoor temperature DB 20°C / WB 15°C, ambient temperature DB 7°C / WB 6°C.

\*\*\* Sound pressure measured at a distance of 1 m and a height of 1.5 m above the ground in a dear field.

\*\*\*\* Optional as request.

## Technical Data

Model	Unit	AA52	AA62	AA72	AA88	AA104
Nominal cooling capacity*	kW	51.3	63.3	71.3	87.9	103.7
	Ton	14.7	18.1	20.4	25.1	29.6
Nominal heating capacity**	kW	58.9	72.6	81.9	100.0	115.8
	Ton	16.8	20.7	23.4	28.6	33.1
Connection						
Method	/	Welding	Welding	Welding	Welding	Welding
Liquid pipe diameter	∅ mm	15.88/12.7	15.88×2	15.88×2	15.88×2	19.05×2
Gas pipe diameter	∅ mm	28/19.05	28×2	28×2	28×2	35×2
Power supply	/	230V/3N/60Hz				
Compressor						
Qty/refrigerant circuit	Nr.	2/2	2/2	2/2	2/2	2/2
Cooling power input*	kW	18.4	23.1	26.6	28.1	39.3
Heating power input**	kW	18.22	22.87	26.33	27.82	38.91
Energy adjustment	%	30-70-100	50-100	50-100	50-100	50-100
Outdoor unit						
Axial fans						
Quantity	Nr.	2	2	2	2	2
Airflow	m <sup>3</sup> /h	21500	26500	29880	36500	43500
Sound pressure level***	dB(A)	71	71	71	71	71
Net weight	kg	330	460	460	780	800
Indoor unit						
Centrifugal fans						
Quantity	Nr.	2	2	2	2	2
Airflow	m <sup>3</sup> /h	9250	11450	12900	14800	17100
ESP	Pa	200	300	300	280	500
Sound pressure level***	dB(A)	68	68	69	69	70
Net weight	kg	220	230	300	320	400
Additional electric heater****	kW	2×8	2×10	2×10	2×12	2×14
Additional heating coil****	kW	57.8	71.2	80.3	98.0	113.5

Performance values refer to the following conditions:

\* Cooling capacity is measured under the condition: indoor temperature DB 27°C / WB 19°C, ambient temperature DB 35°C / WB 24°C.

\*\* Heating capacity is measured under the condition: indoor temperature DB 20°C / WB 15°C, ambient temperature DB 7°C / WB 6°C.

\*\*\* Sound pressure measured at a distance of 1 m and a height of 1.5 m above the ground in a dear field.

\*\*\*\* Optional as request.