

Multi system Total Capacity of Design Simulator and Catalog

Table of Contents

01

Difference in Total Capacity between Design Simulator(DS) and Catalog in multi-system

02

Catalog: Multi-system Indoor Unit Total Capacity

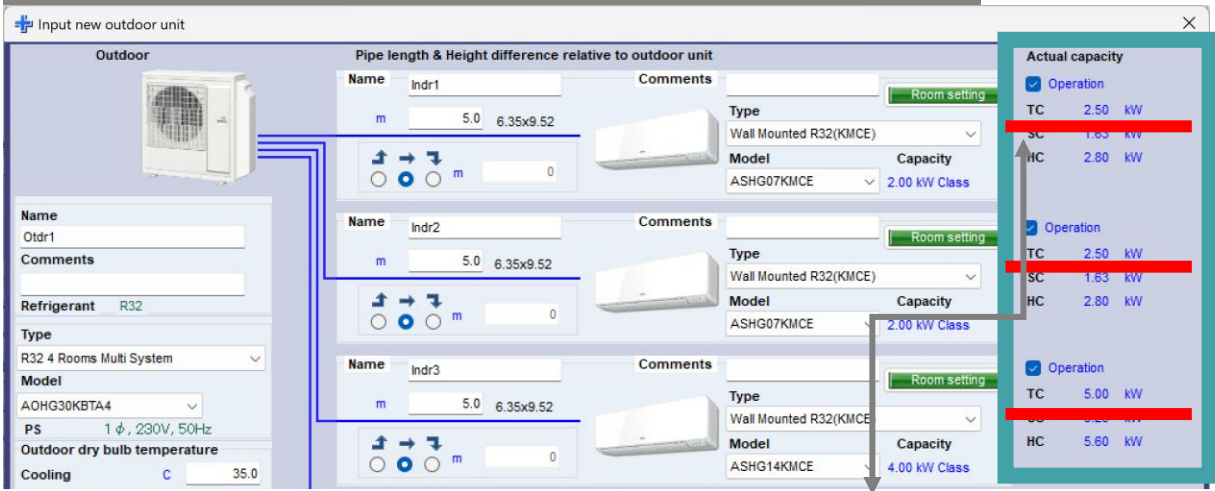
03

DS: Multi-System Indoor Unit Total Capacity

01. Difference in Total Capacity between Design Simulator(DS) and Catalog in multi-system

When set to 27°C indoors and 35°C outdoors, the Total Capacity(TC) for each indoor unit differs between the catalog and the DS.

◆Catalog- R32 4Room Multi System									
AOHG30KBT4	Combination of Indoor Units				Cooling Capacity				
					Unit 1	Unit 2	Unit 3	Unit 4	Total Capacity (Min. - Max.)
					kW	kW	kW	kW	kW
	7	7	14	-	2.00	2.00	4.00	-	8.00 (2.40-10.10)
	7	7	18	-					8.00 (2.40-10.10)
	7	7	22	-	1.56	1.56	4.88	-	8.00 (2.40-10.10)
	7	7	24	-	1.47	1.47	5.06	-	8.00 (2.40-10.10)
Model					Total Capacity				
AS*G07KMCE					2.0kW				
AS*G07KMCE					2.0kW				
AS*G14KMCE					4.0kW				
					Total 8.0kW				

◆Design Simulator - R32 4Room Multi System									
									
Model					Total Capacity				
AS*G07KMCE					2.50kW				
AS*G07KMCE					2.50kW				
AS*G07KMCE					5.00kW				
					Total 10.0kW				

02. Catalog: Multi-system Indoor Unit Total Capacity

The combination table in the catalog shows the rated capacity.
The rated capacity is distributed according to the indoor unit's capacity class.

◆Catalog 4 -Unit Multi-split Combination Table-Cooling								
AOHG30KBTA4	Combination of Indoor Units				Cooling Capacity			
					Unit 1	Unit 2	Unit 3	Unit 4
					kW	kW	kW	kW
					Total Capacity (Min. - Max.)			
	7	7	12	-	2.00	2.00	3.50	7.50 (2.40-9.00)
	7	7	14	-	2.00	2.00	4.00	8.00 (2.40-10.10)
	7	7	18	-	1.75	1.75	4.50	8.00 (2.40-10.10)
	7	7	22	-	1.56	1.56	4.88	8.00 (2.40-10.10)
	7	7	24	-	1.47	1.47	5.06	8.00 (2.40-10.10)

Total Capacity 8.0kW:Distribution according to the indoor unit model.

Meanwhile, the TC shown in the DS indicates the total cooling capacity and is distributed according to the indoor unit's capacity class.TC: Total cooling capacity.

03. DS: Multi-System Indoor Unit Total Capacity

DS Total capacity are calculated based on the maximum capacity.
The maximum capacity is distributed according to the indoor unit's capacity class.

◆Design Simulator:4-Unit Multi-split Total Capacity

Outdoor



Name

Oldr1

Comments

Refrigerant R32

Type R32 4 Rooms Multi System

Model AOHG30KBTA4

PS 1 ϕ, 230V, 50Hz

Outdoor dry bulb temperature

Cooling C 35.0

Heating C 7.0

Indoor temperature

Cooling C 27.0

DBT RH % 46.3

Pipe length & Height difference re

Name

Indr1

m 5.0 6.35x9.52

Room setting

Room setting

Name

Indr2

m 5.0 6.35x9.52

Room setting

Room setting

Name

Indr3

m 5.0 6.35x9.52

Room setting

Room setting

Name

Indr4

m 5.0 6.35x9.52

Room setting

Room setting

Comments

Type Wall Mounted R32(KMCE)

Model ASHG07KMCE

Capacity 2.00 kW Class

Operation TC 2.50 kW SC 1.65 kW HC 2.80 kW

Comments

Type Wall Mounted R32(KMCE)

Model ASHG07KMCE

Capacity 2.00 kW Class

Operation TC 2.50 kW SC 1.65 kW HC 2.80 kW

Comments

Type Wall Mounted R32(KMCE)

Model ASHG14KMCE

Capacity 4.00 kW Class

Operation TC 5.00 kW SC 3.25 kW HC 5.60 kW

Indoor unit connect- ing capacity	Outdoor temperature	Indoor temperature											
		18.0 °CDB		21.0 °CDB		23.0 °CDB		27.0 °CDB		29.0 °CDB		32.0 °CDB	
		12.0 °CWB		15.0 °CWB		16.0 °CWB		19.0 °CWB		21.0 °CWB		23.0 °CWB	
kBtu/h	°CDB	TC	IP	TC	IP	TC	IP	TC	IP	TC	IP	TC	IP
28	-10.0	7.8	2.06	8.9	2.10	9.3	2.11	10.0	2.14	10.7	2.16	11.0	2.17
	0.0	7.8	1.85	8.9	1.88	9.3	1.90	10.0	1.92	10.7	1.94	11.0	1.95
	5.0	7.8	1.73	8.9	1.76	9.3	1.77	10.0	1.79	10.7	1.81	11.0	1.82
	10.0	7.8	1.67	8.9	1.70	9.3	1.72	10.0	1.73	10.7	1.75	11.0	1.76
	15.0	7.8	1.76	8.9	1.79	9.3	1.81	10.0	1.83	10.7	1.85	11.0	1.86
	20.0	7.8	1.75	8.9	1.78	9.3	1.80	10.0	1.82	10.7	1.84	11.0	1.85
	25.0	7.8	1.98	8.9	2.02	9.3	2.03	10.0	2.06	10.7	2.08	11.0	2.09
	30.0	7.8	2.38	8.9	2.42	9.3	2.44	10.0	2.47	10.7	2.50	11.0	2.51
	35.0	7.8	2.88	8.9	2.93	9.3	2.95	10.0	2.98	10.7	3.02	11.0	3.03
	40.0	5.8	2.14	6.6	2.18	6.9	2.20	7.4	2.22	7.9	2.25	8.2	2.26
	46.0	5.8	1.41	6.6	1.43	6.9	1.44	7.4	1.46	7.9	1.48	8.2	1.48

DS imports the D&T capacity table.
This table uses maximum capacity.

DS shows capacity. In total:10 kW.
Distribution ► $\frac{07:07:14}{\text{Class ratio}} = \frac{1:1:2}{\text{Capacity}} = \frac{2.5\text{kW}: 2.5\text{kW}: 5.0\text{kW}}$