

TOSHIBA

Multi Inverter Air-Conditioning



 **Better Air Solutions**



MASCI

ISO 9001 QMS18026/1686
ISO 14001 EMS18012/471
ISO 45001 OHSMS19061/078



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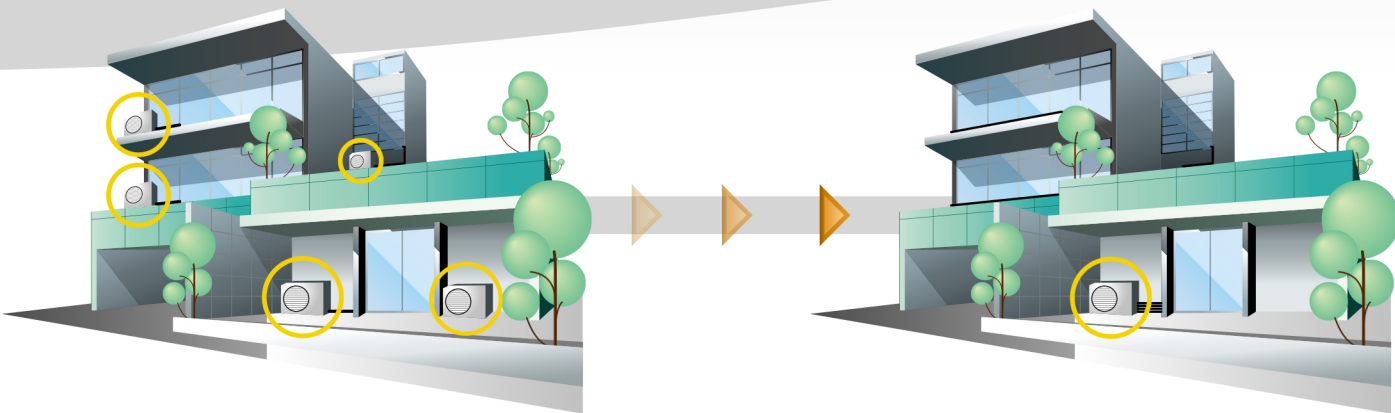
Notice: - Toshiba is committed to continuously improving its products to ensure the highest quality and reliability standards, and to meet local regulations and market requirements. All features and specifications are subject to change without prior notice.

Luxury through Flexibility & Technology

Toshiba Multi system will deliver the ultimate in cooling comfort. The very latest in air conditioning technology ensures optimum performance to greatly enhance the quality of your life.

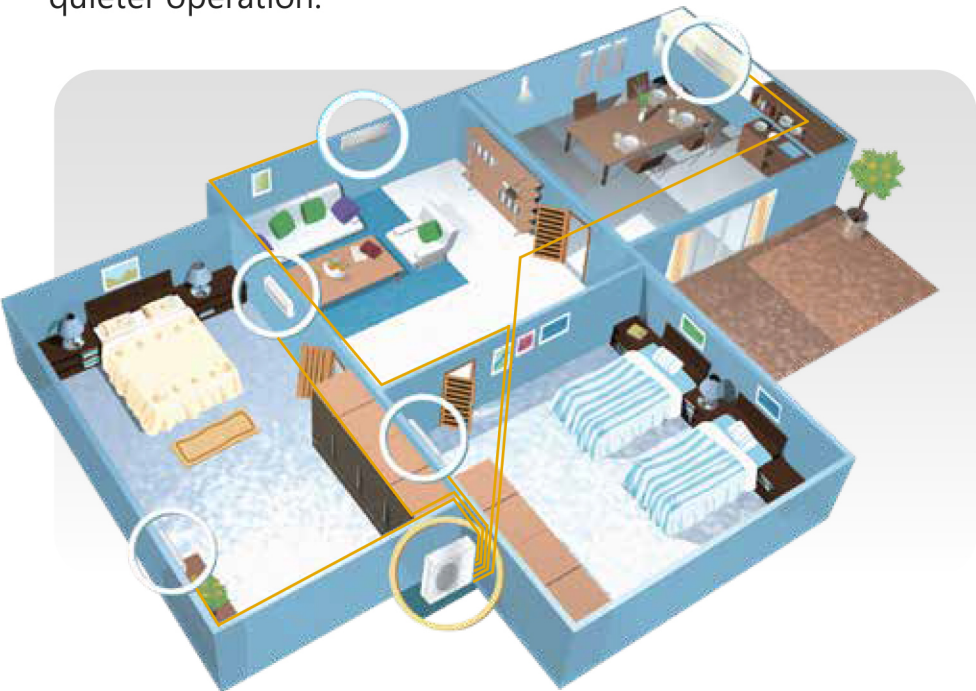


Big Advantages – Flexibility –



Small Unit - Big Advantages

Toshiba Multi-System exterior units are lightweight and compact. Just one outdoor unit takes up little space on a wall or in a yard. It keeps the exterior of buildings neat with quieter operation.



Benefits of the Toshiba Multi-System Flexibility

One external compressor can serve up to five interior units for exceptional flexibility, economy and reliability.

Product line up



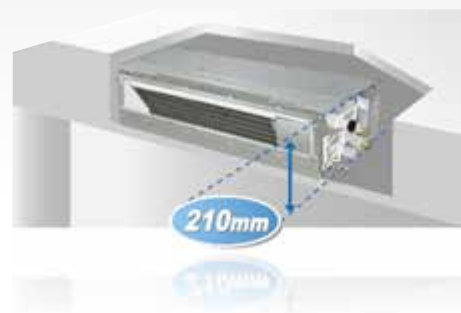
COOLING only	Indoor unit	Ducted	High wall
3 rooms  RAS-3M20S3ACV RAS-3M20S3ACV-ID	10 13 16	RAS-M10U2DCV RAS-M13U2DCV RAS-M16U2DCV	RAS-M10N4KCV RAS-M13N4KCV RAS-M16N4KCV
4 rooms  RAS-4M26S3ACV RAS-4M26S3ACV-ID	10 13 16 22 24	RAS-M10U2DCV RAS-M13U2DCV RAS-M16U2DCV RAS-M22U2DCV	RAS-M10N4KCV RAS-M13N4KCV RAS-M16N4KCV RAS-M22N4KCV RAS-M24N4KCV
5 rooms  RAS-5M38S3ACV RAS-5M38S3ACV-ID	10 13 16 22 24	RAS-M10U2DCV RAS-M13U2DCV RAS-M16U2DCV RAS-M22U2DCV	RAS-M10N4KCV RAS-M13N4KCV RAS-M16N4KCV RAS-M22N4KCV RAS-M24N4KCV



Ducted type



These ducted units offer reliable and controllable comfort year-round. The compact and quiet units are suitable for a wide range of residential and light commercial applications, with one outdoor unit serving up to five indoor units.



Compact chassis

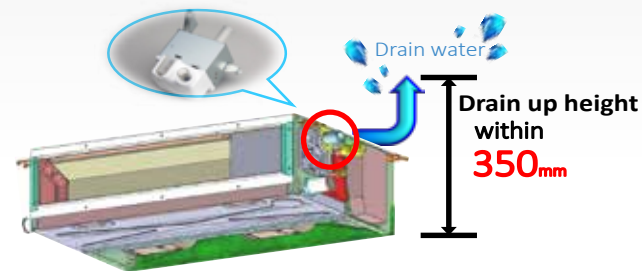
Slimmer design and only 210 mm. height for easier and versatile installations.



Lower sound

Your room which has Ducted indoor unit, provides the ultimate in pure comfort with whisper quiet

Easy installation and maintenance



Drain pump included as standard

>>> Possible to save both cost and working process for installation



Electrical box

>>> Refrigerant piping connection changed to side from front for easy installation

>>> To connect the wire easily, Ducted type has an electrical box on the side of indoor unit.

High wall type

Features



For 10,13,16k

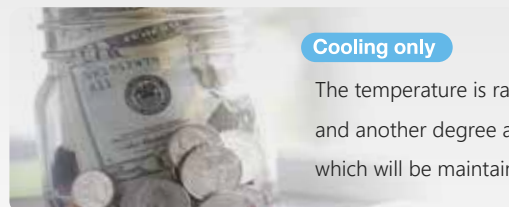
For 22, 24k



Hi Power



Powerful airflow



Cooling only

The temperature is raised by 1°C after 1 hour and another degree after 2 hours, which will be maintained until switching off.

Testing condition
Indoor temperature : Starting from 30°C until reaches a set-point temperature.
Comparison factor : Between to active and inactive the "ECO" function.
Testing period : Total 10 hours
Fan speed setting : Highest

ECO

Achieve energy-savings compared with standard setting without sacrificing comfort.



One Touch My Comfort

The one touch my comfort features customized temperature and airflow settings, which will deliver you ultimate comfort with one simple push of the button.



*Awake in the middle of the night
because you felt the room is too cold?
Do you feel too cold during sleeping at night?*

Comfort Sleep

With Toshiba's convenience feature, when you activate the comfort sleep button, your air-conditioning system will compensate for naturally lower night air temperatures so you can sleep in complete comfort.

Self-Cleaning Function



Normal Operation



Mould Reduction

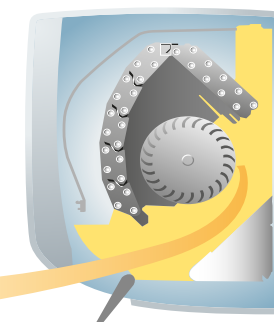
Moisture stays trapped inside during operation.



COOL AIR-FLOW

Self-Cleaning Function

30 minutes of fan operation after shut down dries the moist air and helps reduce mould formation.



NATURAL AIR-FLOW



Indoor unit: Technical specifications COOLING only

Indoor unit		RAS-M10U2DCV	RAS-M13U2DCV	RAS-M16U2DCV	RAS-M22U2DCV
Standard air flow (H)	m3/h	570	610	780	1000
Sound pressure level (H/L)	dB(A)	35/27	37/27	35/24	38/38
Dimensions (H x W x D)	mm	210 x 700 x 450	210 x 700 x 450	210 x 900 x 450	210 x 1100 x 450
Weight	kg	16	16	19	22
Flare connections - Gas	mm	φ9.5	φ9.5	φ12.7	φ12.7
Flare connections - Liquid	mm	φ6.4	φ6.4	φ6.4	φ6.4
External static pressure (Standard/Middle1/Middle2/Upper)	Pa	10/20/35/45 (4-step)	10/20/35/45 (4-step)	10/20/35/45 (4-step)	10/20/35/45 (4-step)



Indoor unit: Technical specifications COOLING only

Indoor unit		RAS-M10N4KCV	RAS-M13N4KCV	RAS-M16N4KCV	RAS-M22N4KCV	RAS-M24N4KCV
Standard air flow (H)	m3/h	516	570	684	1080	1134
Sound pressure level (H/L)	dB(A)	38/26	39/26	45/31	46/35	49/37
Dimensions (H x W x D)	mm	275 x 790 x 217	275 x 790 x 217	275 x 790 x 217	320 x 1050 x 229	320 x 1050 x 229
Weight	kg	10	10	10	13	13
Flare connections - Gas	mm	φ9.5	φ9.5	φ12.7	φ12.7	φ12.7
Flare connections - Liquid	mm	φ6.4	φ6.4	φ6.4	φ6.4	φ6.4

Outdoor unit: Technical specifications COOLING only

Outdoor unit		3-rooms RAS-3M20S3ACV RAS-3M20S3ACV-ID	4-rooms RAS-4M26S3ACV RAS-4M26S3ACV-ID	5-rooms RAS-5M38S3ACV RAS-5M38S3ACV-ID
Cooling capacity	kW	5.8	7.7	11.0
Cooling capacity (min. - max.)	kW	2.4 - 7.0	4.2 - 10.3	3.7 - 12.1
Power input	kW	1.43	1.76	3.24
EER	W/W	4.06	4.38	3.40
Standard air flow	m3/h	2457	3522	3522
Sound pressure level	dB(A)	50	52	54
Operating range	°C	10 ~ 46	10 ~ 46	10 ~ 46
Dimensions (H x W x D)	mm	630 x 800 x 300	890 x 900 x 320	890 x 900 x 320
Weight	kg	45	74	75
Compressor type		DC Twin rotary	DC Twin rotary	DC Twin rotary
Flare connections - Gas	mm	φ12.7 x 2 + φ9.5 x 2	φ12.7 x 2 + φ9.5 x 2	φ12.7 x 2 + φ9.5 x 3
Flare connections - Liquid	mm	φ6.4 x 3	φ6.4 x 4	φ6.4 x 5
Minimum pipe length	m	2	3	3
Maximum pipe length (per unit/total)	m	25/50	25/80	25/80
Maximum height difference	m	10	15	15
Power supply	V-ph-Hz	220-240-1-50, 220-1-60	220-240-1-50, 220-1-60	220-240-1-50, 220-1-60

Rated conditions: Cooling; Indoor air temperature 27°C DB / 19°C WB,
Outdoor air temperature 35°C DB.

Combination table

Cooling, 220V

RAS-3M20S3ACV, RAS-3M20S3ACV-ID

Operating status	Combination			Unit capacity (kW)			Cooling capacity (kW)			Power input (W)			Operating current (A)		
	Unit A	Unit B	Unit C	Unit A	Unit B	Unit C	Min.	Rated	Max.	Min.	Rated	Max.	Min.	Rated	Max.
1 unit operation	10	-	-	2.70	-	-	1.4	2.7	3.2	280	670	850	1.65	3.46	4.14
	13	-	-	3.70	-	-	1.4	3.7	4.4	280	1070	1380	1.65	5.17	6.62
	16	-	-	4.50	-	-	1.5	4.5	5.0	280	1300	1660	1.65	6.25	7.91
2 units operation	10	10	-	2.70	2.70	-	2.3	5.4	6.1	390	1420	1840	2.27	6.80	8.75
	13	10	-	3.35	2.45	-	2.4	5.8	6.3	390	1580	1850	2.27	7.54	8.79
	16	10	-	3.62	2.18	-	2.4	5.8	6.5	390	1470	1870	2.27	7.03	8.89
	13	13	-	2.90	2.90	-	2.4	5.8	6.4	390	1530	1860	2.27	7.31	8.84
	16	13	-	3.18	2.62	-	2.4	5.8	6.6	390	1450	1880	2.27	6.94	8.93
	16	16	-	2.90	2.90	-	2.4	5.8	6.8	400	1370	1910	2.32	6.57	9.07
3 units operation	10	10	10	1.94	1.93	1.93	2.4	5.8	7.0	400	1430	2000	2.32	6.85	9.49
	13	10	10	2.36	1.72	1.72	2.4	5.8	7.0	400	1420	2000	2.32	6.80	9.49
	16	10	10	2.64	1.58	1.58	2.4	5.8	7.0	400	1410	2000	2.32	6.76	9.49
	13	13	10	2.12	2.12	1.56	2.4	5.8	7.0	400	1420	2000	2.32	6.80	9.49
	16	13	10	2.39	1.97	1.43	2.4	5.8	7.0	400	1400	2000	2.32	6.71	9.49
	13	13	13	1.94	1.93	1.93	2.4	5.8	7.0	400	1410	2000	2.32	6.76	9.49

Cooling, 230V

RAS-3M20S3ACV, RAS-3M20S3ACV-ID

Operating status	Combination			Unit capacity (kW)			Cooling capacity (kW)			Power input (W)			Operating current (A)		
	Unit A	Unit B	Unit C	Unit A	Unit B	Unit C	Min.	Rated	Max.	Min.	Rated	Max.	Min.	Rated	Max.
1 unit operation	10	-	-	2.70	-	-	1.4	2.7	3.2	280	670	850	1.58	3.31	3.96
	13	-	-	3.70	-	-	1.4	3.7	4.4	280	1070	1380	1.58	4.95	6.33
	16	-	-	4.50	-	-	1.5	4.5	5.0	280	1300	1660	1.58	5.97	7.57
2 units operation	10	10	-	2.70	2.70	-	2.3	5.4	6.1	390	1420	1840	2.17	6.51	8.37
	13	10	-	3.35	2.45	-	2.4	5.8	6.3	390	1580	1850	2.17	7.22	8.41
	16	10	-	3.62	2.18	-	2.4	5.8	6.5	390	1470	1870	2.17	6.73	8.50
	13	13	-	2.90	2.90	-	2.4	5.8	6.4	390	1530	1860	2.17	6.99	8.45
	16	13	-	3.18	2.62	-	2.4	5.8	6.6	390	1450	1880	2.17	6.64	8.54
	16	16	-	2.90	2.90	-	2.4	5.8	6.8	400	1370	1910	2.22	6.29	8.68
3 units operation	10	10	10	1.94	1.93	1.93	2.4	5.8	7.0	400	1430	2000	2.22	6.55	9.07
	13	10	10	2.36	1.72	1.72	2.4	5.8	7.0	400	1420	2000	2.22	6.51	9.07
	16	10	10	2.64	1.58	1.58	2.4	5.8	7.0	400	1410	2000	2.22	6.46	9.07
	13	13	10	2.12	2.12	1.56	2.4	5.8	7.0	400	1420	2000	2.22	6.51	9.07
	16	13	10	2.39	1.97	1.43	2.4	5.8	7.0	400	1400	2000	2.22	6.42	9.07
	13	13	13	1.94	1.93	1.93	2.4	5.8	7.0	400	1410	2000	2.22	6.46	9.07

Combination table

Cooling, 240V

RAS-3M20S3ACV, RAS-3M20S3ACV-ID

Operating status	Combination			Unit capacity (kW)			Cooling capacity (kW)			Power input (W)			Operating current (A)		
	Unit A	Unit B	Unit C	Unit A	Unit B	Unit C	Min.	Rated	Max.	Min.	Rated	Max.	Min.	Rated	Max.
1 unit operation	10	-	-	2.70	-	-	1.4	2.7	3.2	280	670	850	1.52	3.17	3.79
	13	-	-	3.70	-	-	1.4	3.7	4.4	280	1070	1380	1.52	4.74	6.07
	16	-	-	4.50	-	-	1.5	4.5	5.0	280	1300	1660	1.52	5.73	7.25
2 units operation	10	10	-	2.70	2.70	-	2.3	5.4	6.1	390	1420	1840	2.08	6.24	8.02
	13	10	-	3.35	2.45	-	2.4	5.8	6.3	390	1580	1850	2.08	6.92	8.06
	16	10	-	3.62	2.18	-	2.4	5.8	6.5	390	1470	1870	2.08	6.45	8.14
	13	13	-	2.90	2.90	-	2.4	5.8	6.4	390	1530	1860	2.08	6.70	8.10
	16	13	-	3.18	2.62	-	2.4	5.8	6.6	390	1450	1880	2.08	6.36	8.19
	16	16	-	2.90	2.90	-	2.4	5.8	6.8	400	1370	1910	2.13	6.02	8.31
3 units operation	10	10	10	1.94	1.93	1.93	2.4	5.8	7.0	400	1430	2000	2.13	6.28	8.70
	13	10	10	2.36	1.72	1.72	2.4	5.8	7.0	400	1420	2000	2.13	6.24	8.70
	16	10	10	2.64	1.58	1.58	2.4	5.8	7.0	400	1410	2000	2.13	6.19	8.70
	13	13	10	2.12	2.12	1.56	2.4	5.8	7.0	400	1420	2000	2.13	6.24	8.70
	16	13	10	2.39	1.97	1.43	2.4	5.8	7.0	400	1400	2000	2.13	6.15	8.70
	13	13	13	1.94	1.93	1.93	2.4	5.8	7.0	400	1410	2000	2.13	6.19	8.70

Cooling, 220V

RAS-4M26S3ACV, RAS-4M26S3ACV-ID

Operating status	Combination				Unit capacity (kW)				Cooling capacity (kW)			Power input (W)			Operating current (A)		
	Unit A	Unit B	Unit C	Unit D	Unit A	Unit B	Unit C	Unit D	Min.	Rated	Max.	Min.	Rated	Max.	Min.	Rated	Max.
1 unit operation	10	-	-	-	2.70	-	-	-	1.4	2.7	3.2	640	750	950	3.83	4.43	4.64
	13	-	-	-	3.70	-	-	-	1.4	3.7	4.4	640	1200	1520	3.68	6.20	7.20
	16	-	-	-	4.50	-	-	-	1.4	4.5	5.0	640	1650	2000	3.68	7.98	9.28
	22	-	-	-	6.00	-	-	-	2.4	6.0	6.8	640	2020	2500	3.68	9.56	11.60
	24	-	-	-	7.10	-	-	-	2.4	7.1	7.2	660	2390	2960	3.80	11.32	13.73
2 units operation	10	10	-	-	2.70	2.70	-	-	2.5	5.4	6.3	640	1430	2180	3.64	7.14	10.11
	13	10	-	-	3.70	2.70	-	-	2.7	6.4	7.1	660	1850	2370	3.75	8.85	10.99
	16	10	-	-	4.38	2.63	-	-	2.9	7.0	7.3	670	2000	2460	3.81	10.53	11.41
	22	10	-	-	5.31	2.39	-	-	2.9	7.7	8.5	670	2000	2500	3.81	10.53	11.60
	24	10	-	-	5.58	2.12	-	-	3.0	7.7	8.5	690	2200	2500	3.92	10.53	11.60
	13	13	-	-	3.50	3.50	-	-	2.9	7.0	7.3	670	2200	2460	3.81	10.53	11.41
	16	13	-	-	4.23	3.47	-	-	3.2	7.7	8.3	700	2300	2600	3.98	11.00	12.06
	22	13	-	-	4.76	2.94	-	-	3.2	7.7	8.5	700	2200	2600	3.98	10.53	12.06
	24	13	-	-	5.06	2.64	-	-	3.2	7.7	8.3	700	2200	2600	3.98	10.53	12.06
	16	16	-	-	3.85	3.85	-	-	3.2	7.7	8.3	700	2300	2600	3.98	11.00	12.06
	22	16	-	-	4.40	3.30	-	-	3.2	7.7	8.5	700	2200	2500	3.98	10.53	11.60
	24	16	-	-	4.71	2.99	-	-	3.2	7.7	8.5	700	2200	2500	3.98	10.53	11.60
	22	22	-	-	3.85	3.85	-	-	3.2	7.7	9.1	700	2200	2600	3.98	10.53	12.06

Combination table

Cooling, 220V

RAS-4M26S3ACV, RAS-4M26S3ACV-ID

Operating status	Combination				Unit capacity (kW)				Cooling capacity (kW)			Power input (W)			Operating current (A)		
	Unit A	Unit B	Unit C	Unit D	Unit A	Unit B	Unit C	Unit D	Min.	Rated	Max.	Min.	Rated	Max.	Min.	Rated	Max.
2 units operation	22	24	-	-	3.53	4.17	-	-	3.2	7.7	9.1	700	2200	2600	3.98	10.53	12.06
	24	24	-	-	3.85	3.85	-	-	3.2	7.7	9.2	700	2200	2600	3.98	10.53	12.06
3 units operation	10	10	10	-	2.57	2.57	2.57	-	3.8	7.7	8.7	950	2100	2850	4.80	10.05	13.22
	13	10	10	-	3.13	2.28	2.28	-	3.9	7.7	9.1	960	2100	2870	4.64	11.58	12.73
	16	10	10	-	3.50	2.10	2.10	-	4.0	7.7	9.5	960	2100	2980	4.64	11.58	12.95
	22	10	10	-	4.05	1.82	1.82	-	4.1	7.7	9.6	970	2000	2970	4.64	11.58	12.95
	24	10	10	-	4.37	1.66	1.66	-	4.1	7.7	9.6	970	2000	2970	4.90	9.57	13.78
	13	13	10	-	2.82	2.82	2.06	-	4.1	7.7	9.5	970	2100	2980	4.90	10.05	13.82
	16	13	10	-	3.18	2.61	1.91	-	4.1	7.7	9.5	970	2100	2980	4.90	10.05	13.82
	22	13	10	-	3.73	2.30	1.68	-	4.1	7.7	9.6	970	2000	2970	4.90	9.57	13.78
	24	13	10	-	4.05	2.11	1.54	-	4.1	7.7	9.6	970	2000	2970	4.90	9.57	13.78
	16	16	10	-	2.96	2.96	1.78	-	4.1	7.7	9.6	980	2100	2980	4.95	10.05	13.82
	22	16	10	-	3.50	2.63	1.58	-	4.1	7.7	9.6	970	2000	2970	4.90	9.57	13.78
	24	16	10	-	3.82	2.42	1.45	-	4.1	7.7	9.6	970	2000	2970	4.90	9.57	13.78
	13	13	13	-	2.57	2.57	2.57	-	4.1	7.7	9.5	970	2100	2980	4.90	10.05	13.82
	16	13	13	-	2.91	2.39	2.39	-	4.1	7.7	9.5	970	2100	2980	4.90	10.05	13.82
	22	13	13	-	3.45	2.13	2.13	-	4.1	7.7	9.6	970	2000	2970	4.90	9.57	13.78
	24	13	13	-	3.77	1.96	1.96	-	4.1	7.7	9.6	970	2000	2970	4.90	9.57	13.78
	16	16	13	-	2.73	2.73	2.24	-	4.1	7.7	9.5	970	2100	2980	4.90	10.05	13.82
	16	16	16	-	2.57	2.57	2.57	-	4.1	7.7	9.5	970	2100	2980	4.90	10.05	13.82
	22	16	13	-	3.25	2.44	2.01	-	4.1	7.7	9.6	970	2000	2970	4.90	9.57	13.78
	24	16	13	-	3.57	2.26	1.86	-	4.1	7.7	9.6	970	2000	2970	4.90	9.57	13.78
	22	22	10	-	3.14	3.14	3.41	-	4.1	7.7	9.7	970	2000	2970	4.90	9.57	13.78
	24	22	10	-	3.46	2.92	1.32	-	4.1	7.7	9.7	970	2000	2970	4.90	9.57	13.78
	24	24	10	-	3.23	3.23	1.23	-	4.1	7.7	9.7	970	2000	2970	4.90	9.57	13.78
4 units operation	10	10	10	10	1.93	1.93	1.93	1.93	4.1	7.7	10.0	940	1800	2930	4.75	8.61	13.59
	13	10	10	10	2.41	1.76	1.76	1.76	4.1	7.7	10.2	940	1800	2960	4.75	8.61	13.73
	16	10	10	10	2.75	1.65	1.65	1.65	4.2	7.7	10.3	950	1800	3020	4.80	8.61	14.01
	22	10	10	10	3.28	1.47	1.47	1.47	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	24	10	10	10	3.60	1.37	1.37	1.37	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	13	13	10	10	2.23	2.23	1.62	1.62	4.2	7.7	10.3	950	1800	3020	4.80	8.61	14.01
	16	13	10	10	2.55	2.09	1.53	1.53	4.2	7.7	10.3	950	1800	3020	4.80	8.61	14.01
	22	13	10	10	3.06	1.89	1.38	1.38	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	24	13	10	10	3.37	1.76	1.28	1.28	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	16	16	10	10	2.41	2.41	1.44	1.44	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	22	16	10	10	2.91	2.18	1.31	1.31	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	24	16	10	10	3.22	2.04	1.22	1.22	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	13	13	13	10	2.06	2.06	2.06	1.51	4.2	7.7	10.3	950	1760	3020	4.80	8.42	14.01
	16	13	13	10	2.37	1.95	1.95	1.42	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	22	13	13	10	2.87	1.77	1.77	1.29	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	24	13	13	10	3.18	1.66	1.66	1.21	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	16	16	13	10	2.25	2.25	1.85	1.35	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82

Combination table

Cooling, 230V

RAS-4M26S3ACV, RAS-4M26S3ACV-ID																	
Operating status	Combination				Unit capacity (kW)				Cooling capacity (kW)			Power input (W)			Operating current (A)		
	Unit A	Unit B	Unit C	Unit D	Unit A	Unit B	Unit C	Unit D	Min.	Rated	Max.	Min.	Rated	Max.	Min.	Rated	Max.
1 unit operation	10	-	-	-	2.70	-	-	-	1.4	2.7	3.2	640	750	950	3.66	4.23	4.44
	13	-	-	-	3.70	-	-	-	1.4	3.7	4.4	640	1200	1520	3.52	5.93	6.88
	16	-	-	-	4.50	-	-	-	1.4	4.5	5.0	640	1650	2000	3.52	7.63	8.87
	22	-	-	-	6.00	-	-	-	2.4	6.0	6.8	640	2020	2500	3.52	9.15	11.09
	24	-	-	-	7.10	-	-	-	2.4	7.1	7.2	660	2390	2960	3.63	10.82	13.13
2 units operation	10	10	-	-	2.70	2.70	-	-	2.5	5.4	6.3	640	1430	2180	3.48	6.83	9.67
	13	10	-	-	3.70	2.70	-	-	2.7	6.4	7.1	660	1850	2370	3.59	8.47	10.51
	16	10	-	-	4.38	2.63	-	-	2.9	7.0	7.3	670	2000	2460	3.64	10.07	10.91
	22	10	-	-	5.31	2.39	-	-	2.9	7.7	8.5	670	2000	2500	3.64	10.07	11.09
	24	10	-	-	5.58	2.12	-	-	3.0	7.7	8.5	690	2200	2500	3.75	10.07	11.09
	13	13	-	-	3.50	3.50	-	-	2.9	7.0	7.3	670	2200	2460	3.64	10.07	10.91
	16	13	-	-	4.23	3.47	-	-	3.2	7.7	8.3	700	2300	2600	3.80	10.53	11.54
	22	13	-	-	4.76	2.94	-	-	3.2	7.7	8.5	700	2200	2600	3.80	10.07	11.54
	24	13	-	-	5.06	2.64	-	-	3.2	7.7	8.3	700	2200	2600	3.80	10.07	11.54
	16	16	-	-	3.85	3.85	-	-	3.2	7.7	8.3	700	2300	2600	3.80	10.53	11.54
	22	16	-	-	4.40	3.30	-	-	3.2	7.7	8.5	700	2200	2500	3.80	10.07	11.09
	24	16	-	-	4.71	2.99	-	-	3.2	7.7	8.5	700	2200	2500	3.80	10.07	11.09
	22	22	-	-	3.85	3.85	-	-	3.2	7.7	9.1	700	2200	2600	3.80	10.07	11.54
	22	24	-	-	3.53	4.17	-	-	3.2	7.7	9.1	700	2200	2600	3.80	10.07	11.54
	24	24	-	-	3.85	3.85	-	-	3.2	7.7	9.2	700	2200	2600	3.80	10.07	11.54
3 units operation	10	10	10	-	2.57	2.57	2.57	-	3.8	7.7	8.7	950	2100	2850	4.59	9.61	12.64
	13	10	10	-	3.13	2.28	2.28	-	3.9	7.7	9.1	960	2100	2870	4.64	11.58	12.73
	16	10	10	-	3.50	2.10	2.10	-	4.0	7.7	9.5	960	2100	2980	4.64	11.58	12.95
	22	10	10	-	4.05	1.82	1.82	-	4.1	7.7	9.6	970	2000	2970	4.64	11.58	12.95
	24	10	10	-	4.37	1.66	1.66	-	4.1	7.7	9.6	970	2000	2970	4.69	9.15	13.18
	13	13	10	-	2.82	2.82	2.06	-	4.1	7.7	9.5	970	2100	2980	4.69	9.61	13.22
	16	13	10	-	3.18	2.61	1.91	-	4.1	7.7	9.5	970	2100	2980	4.69	9.61	13.22
	22	13	10	-	3.73	2.30	1.68	-	4.1	7.7	9.6	970	2000	2970	4.69	9.15	13.18
	24	13	10	-	4.05	2.11	1.54	-	4.1	7.7	9.6	970	2000	2970	4.69	9.15	13.18
	16	16	10	-	2.96	2.96	1.78	-	4.1	7.7	9.6	980	2100	2980	4.73	9.61	13.22
	22	16	10	-	3.50	2.63	1.58	-	4.1	7.7	9.6	970	2000	2970	4.69	9.15	13.18
	24	16	10	-	3.82	2.42	1.45	-	4.1	7.7	9.6	970	2000	2970	4.69	9.15	13.18
	13	13	13	-	2.57	2.57	2.57	-	4.1	7.7	9.5	970	2100	2980	4.69	9.61	13.22
	16	13	13	-	2.91	2.39	2.39	-	4.1	7.7	9.5	970	2100	2980	4.69	9.61	13.22
	22	13	13	-	3.45	2.13	2.13	-	4.1	7.7	9.6	970	2000	2970	4.69	9.15	13.18
	24	13	13	-	3.77	1.96	1.96	-	4.1	7.7	9.6	970	2000	2970	4.69	9.15	13.18
	16	16	13	-	2.73	2.73	2.24	-	4.1	7.7	9.5	970	2100	2980	4.69	9.61	13.22
	16	16	16	-	2.57	2.57	2.57	-	4.1	7.7	9.5	970	2100	2980	4.69	9.61	13.22
	22	16	13	-	3.25	2.44	2.01	-	4.1	7.7	9.6	970	2000	2970	4.69	9.15	13.18
	24	16	13	-	3.57	2.26	1.86	-	4.1	7.7	9.6	970	2000	2970	4.69	9.15	13.18
	22	22	10	-	3.14	3.14	3.41	-	4.1	7.7	9.7	970	2000	2970	4.69	9.15	13.18
	24	22	10	-	3.46	2.92	1.32	-	4.1	7.7	9.7	970	2000	2970	4.69	9.15	13.18
	24	24	10	-	3.23	3.23	1.23	-	4.1	7.7	9.7	970	2000	2970	4.69	9.15	13.18
4 units operation	10	10	10	10	1.93	1.93	1.93	1.93	4.1	7.7	10.0	940	1800	2930	4.54	8.24	13.00
	13	10	10	10	2.41	1.76	1.76	1.76	4.1	7.7	10.2	940	1800	2960	4.54	8.24	13.13
	16	10	10	10	2.75	1.65	1.65	1.65	4.2	7.7	10.3	950	1800	3020	4.59	8.24	13.40
	22	10	10	10	3.28	1.47	1.47	1.47	4.2	7.7	10.3	950	1760	2980	4.59	8.05	13.22
	24	10	10	10	3.60	1.37	1.37	1.37	4.2	7.7	10.3	950	1760	2980	4.59	8.05	13.22
	13	13	10	10	2.23	2.23	1.62	1.62	4.2	7.7	10.3	950	1800	3020	4.59	8.24	13.40
	16	13	10	10	2.55	2.09	1.53	1.53	4.2	7.7	10.3	950	1800	3020	4.59	8.24	13.40
	22	13	10	10	3.06	1.89	1.38	1.38	4.2	7.7	10.3	950	1760	2980	4.59	8.05	13.22
	24	13	10	10	3.37	1.76	1.28	1.28	4.2	7.7	10.3	950	1760	2980	4.59	8.05	13.22
	16	16	10	10	2.41	2.41	1.44	1.44	4.2	7.7	10.3	950	1760	2980	4.59	8.05	13.22
	22	16	10	10	2.91	2.18	1.31	1.31	4.2	7.7	10.3	950	1760	2980	4.59	8.05	13.22
	24	16	10	10	3.22	2.04	1.22	1.22	4.2	7.7	10.3	950	1760	2980	4.59	8.05	13.22

Combination table

Cooling, 230V

RAS-4M26S3ACV, RAS-4M26S3ACV-ID																	
Operating status	Combination				Unit capacity (kW)				Cooling capacity (kW)			Power input (W)			Operating current (A)		
	Unit A	Unit B	Unit C	Unit D	Unit A	Unit B	Unit C	Unit D	Min.	Rated	Max.	Min.	Rated	Max.	Min.	Rated	Max.
4 units operation	13	13	13	10	2.06	2.06	2.06	1.51	4.2	7.7	10.3	950	1760	3020	4.59	8.05	13.40
	16	13	13	10	2.37	1.95	1.95	1.42	4.2	7.7	10.3	950	1760	2980	4.59	8.05	13.22
	22	13	13	10	2.87	1.77	1.77	1.29	4.2	7.7	10.3	950	1760	2980	4.59	8.05	13.22
	24	13	13	10	3.18	1.66	1.66	1.21	4.2	7.7	10.3	950	1760	2980	4.59	8.05	13.22
	16	16	13	10	2.25	2.25	1.85	1.35	4.2	7.7	10.3	950	1760	2980	4.59	8.05	13.22
	22	16	13	10	2.73	2.05	1.69	1.23	4.2	7.7	10.3	950	1760	2980	4.59	8.05	13.22
	24	16	13	10	3.04	1.93	1.58	1.16	4.2	7.7	10.3	950	1760	2980	4.59	8.05	13.22
	13	13	13	13	1.93	1.93	1.93	1.93	4.2	7.7	10.3	950	1760	2980	4.59	8.05	13.22
	16	13	13	13	2.22	1.83	1.83	1.83	4.2	7.7	10.3	950	1760	2980	4.59	8.05	13.22
	22	13	13	13	2.70	1.67	1.67	1.67	4.2	7.7	10.3	950	1760	2980	4.59	8.05	13.22
	24	13	13	13	3.00	1.57	1.57	1.57	4.2	7.7	10.3	950	1760	2980	4.59	8.05	13.22
	16	16	13	13	2.11	2.11	1.74	1.74	4.2	7.7	10.3	950	1760	2980	4.59	8.05	13.22
	22	16	13	13	2.58	1.94	1.59	1.59	4.2	7.7	10.3	950	1760	2980	4.59	8.05	13.22
	24	16	13	13	2.88	1.82	1.50	1.50	4.2	7.7	10.3	950	1760	2980	4.59	8.05	13.22

Cooling, 240V

Operating status	Combination				Unit capacity (kW)				Cooling capacity (kW)			Power input (W)			Operating current (A)		
	Unit A	Unit B	Unit C	Unit D	Unit A	Unit B	Unit C	Unit D	Min.	Rated	Max.	Min.	Rated	Max.	Min.	Rated	Max.
1 unit operation	10	-	-	-	2.70	-	-	-	1.4	2.7	3.2	640	750	950	3.83	4.43	4.64
	13	-	-	-	3.70	-	-	-	1.4	3.7	4.4	640	1200	1520	3.68	6.20	7.20
	16	-	-	-	4.50	-	-	-	1.4	4.5	5.0	650	1650	2000	3.68	7.98	9.28
	22	-	-	-	6.00	-	-	-	2.4	6.0	6.8	640	2020	2500	3.68	9.56	11.60
	24	-	-	-	7.10	-	-	-	2.4	7.1	7.2	660	2390	2960	3.80	11.32	13.73
2 units operation	10	10	-	-	2.70	2.70	-	-	2.5	5.4	6.3	640	1430	2180	3.64	7.14	10.11
	13	10	-	-	3.70	2.70	-	-	2.7	6.4	7.1	660	1850	2370	3.75	8.85	10.99
	16	10	-	-	4.38	2.63	-	-	2.9	7.0	7.3	670	2200	2460	3.81	10.53	11.41
	22	10	-	-	5.31	2.39	-	-	2.9	7.7	8.5	670	2200	2500	3.81	10.53	11.60
	24	10	-	-	5.58	2.12	-	-	3.0	7.7	8.5	690	2200	2500	3.92	10.53	11.60
	13	13	-	-	3.50	3.50	-	-	2.9	7.0	7.3	670	2200	2460	3.81	10.53	11.41
	16	13	-	-	4.23	3.47	-	-	3.2	7.7	8.3	700	2300	2600	3.98	11.00	12.06
	22	13	-	-	4.76	2.94	-	-	3.2	7.7	8.5	700	2200	2600	3.98	10.53	12.06
	24	13	-	-	5.06	2.64	-	-	3.2	7.7	8.3	700	2200	2600	3.98	10.53	12.06
	16	16	-	-	3.85	3.85	-	-	3.2	7.7	8.3	700	2300	2600	3.98	11.00	12.06
	22	16	-	-	4.40	3.30	-	-	3.2	7.7	8.5	700	2200	2500	3.98	10.53	11.60
	24	16	-	-	4.71	2.99	-	-	3.2	7.7	8.5	700	2200	2500	3.98	10.53	11.60
	22	22	-	-	3.85	3.85	-	-	3.2	7.7	9.1	700	2200	2600	3.98	10.53	12.06
	22	24	-	-	3.53	4.17	-	-	3.2	7.7	9.1	700	2200	2600	3.98	10.53	12.06
	24	24	-	-	3.85	3.85	-	-	3.2	7.7	9.2	700	2200	2600	3.98	10.53	12.06
	3 units operation	10	10	10	-	2.57	2.57	2.57	-	3.8	7.7	8.7	950	2100	2850	4.80	10.05
13		10	10	-	3.13	2.28	2.28	-	3.9	7.7	9.1	960	2100	2870	4.64	11.58	12.73
16		10	10	-	3.50	2.10	2.10	-	4.0	7.7	9.5	960	2100	2980	4.64	11.58	12.95
22		10	10	-	4.05	1.82	1.82	-	4.1	7.7	9.6	970	2000	2970	4.64	11.58	12.95
24		10	10	-	4.37	1.66	1.66	-	4.1	7.7	9.6	970	2000	2970	4.90	9.57	13.78
13		13	10	-	2.82	2.82	2.06	-	4.1	7.7	9.5	970	2100	2980	4.90	10.05	13.82
16		13	10	-	3.18	2.61	1.91	-	4.1	7.7	9.5	970	2100	2980	4.90	10.05	13.82
22		13	10	-	3.73	2.30	1.68	-	4.1	7.7	9.6	970	2000	2970	4.90	9.57	13.78
24		13	10	-	4.05	2.11	1.54	-	4.1	7.7	9.6	970	2000	2970	4.90	9.57	13.78
16		16	10	-	2.96	2.96	1.78	-	4.1	7.7	9.6	980	2100	2980	4.95	10.05	13.82
22		16	10	-	3.50	2.63	1.58	-	4.1	7.7	9.6	970	2000	2970	4.90	9.57	13.78
24		16	10	-	3.82	2.42	1.45	-	4.1	7.7	9.6	970	2000	2970	4.90	9.57	13.78
13		13	13	-	2.57	2.57	2.57	-	4.1	7.7	9.5	970	2100	2980	4.90	10.05	13.82
16		13	13	-	2.91	2.39	2.39	-	4.1	7.7	9.5	970	2100	2980	4.90	10.05	13.82
22		13	13	-	3.45	2.13	2.13	-	4.1	7.7	9.6	970	2000	2970	4.90	9.57	13.78
24		13	13	-	3.77	1.96	1.96	-	4.1	7.7	9.6	970	2000	2970	4.90	9.57	13.78
16	16	13	-	2.73	2.73	2.24	-	4.1	7.7	9.5	970	2100	2980	4.90	10.05	13.82	
16	16	16	-	2.57	2.57	2.57	-	4.1	7.7	9.5	970	2100	2980	4.90	10.05	13.82	

Combination table

Cooling, 240V

RAS-4M26S3ACV, RAS-4M26S3ACV-ID

Operating status	Combination				Unit capacity (kW)				Cooling capacity (kW)			Power input (W)			Operating current (A)		
	Unit A	Unit B	Unit C	Unit D	Unit A	Unit B	Unit C	Unit D	Min.	Rated	Max.	Min.	Rated	Max.	Min.	Rated	Max.
3 units operation	22	16	13	-	3.25	2.44	2.01	-	4.1	7.7	9.6	970	2000	2970	4.90	9.57	13.78
	24	16	13	-	3.57	2.26	1.86	-	4.1	7.7	9.6	970	2000	2970	4.90	9.57	13.78
	22	22	10	-	3.14	3.14	3.41	-	4.1	7.7	9.7	970	2000	2970	4.90	9.57	13.78
	24	22	10	-	3.46	2.92	1.32	-	4.1	7.7	9.7	970	2000	2970	4.90	9.57	13.78
	24	24	10	-	3.23	3.23	1.23	-	4.1	7.7	9.7	970	2000	2970	4.90	9.57	13.78
4 units operation	10	10	10	10	1.93	1.93	1.93	1.93	4.1	7.7	10.0	940	1800	2930	4.75	8.61	13.59
	13	10	10	10	2.41	1.76	1.76	1.76	4.1	7.7	10.2	940	1800	2960	4.75	8.61	13.73
	16	10	10	10	2.75	1.65	1.65	1.65	4.2	7.7	10.3	950	1800	3020	4.80	8.61	14.01
	22	10	10	10	3.28	1.47	1.47	1.47	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	24	10	10	10	3.60	1.37	1.37	1.37	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	13	13	10	10	2.23	2.23	1.62	1.62	4.2	7.7	10.3	950	1800	3020	4.80	8.61	14.01
	16	13	10	10	2.55	2.09	1.53	1.53	4.2	7.7	10.3	950	1800	3020	4.80	8.61	14.01
	22	13	10	10	3.06	1.89	1.38	1.38	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	24	13	10	10	3.37	1.76	1.28	1.28	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	16	16	10	10	2.41	2.41	1.44	1.44	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	22	16	10	10	2.91	2.18	1.31	1.31	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	24	16	10	10	3.22	2.04	1.22	1.22	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	13	13	13	10	2.06	2.06	2.06	1.51	4.2	7.7	10.3	950	1760	3020	4.80	8.42	14.01
	16	13	13	10	2.37	1.95	1.95	1.42	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	22	13	13	10	2.87	1.77	1.77	1.29	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	24	13	13	10	3.18	1.66	1.66	1.21	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	16	16	13	10	2.25	2.25	1.85	1.35	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	22	16	13	10	2.73	2.05	1.69	1.23	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	24	16	13	10	3.04	1.93	1.58	1.16	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	13	13	13	13	1.93	1.93	1.93	1.93	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	16	13	13	13	2.22	1.83	1.83	1.83	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	22	13	13	13	2.70	1.67	1.67	1.67	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	24	13	13	13	3.00	1.57	1.57	1.57	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	16	16	13	13	2.11	2.11	1.74	1.74	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	22	16	13	13	2.58	1.94	1.59	1.59	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82
	24	16	13	13	2.88	1.82	1.50	1.50	4.2	7.7	10.3	950	1760	2980	4.80	8.42	13.82

Cooling, 220V

RAS-5M38S3ACV, RAS-5M38S3ACV-ID

Operating status	Combination					Unit capacity (kW)					Cooling capacity (kW)			Power input (W)			Operating current (A)		
	Unit A	Unit B	Unit C	Unit D	Unit E	Unit A	Unit B	Unit C	Unit D	Unit E	Min.	Rated	Max.	Min.	Rated	Max.	Min.	Rated	Max.
1 unit operation	10	-	-	-	-	2.70	-	-	-	-	1.4	2.7	3.2	640	750	950	3.83	4.43	4.64
	13	-	-	-	-	3.70	-	-	-	-	1.4	3.7	4.4	640	1200	1520	3.68	6.20	7.20
	16	-	-	-	-	4.50	-	-	-	-	1.4	4.5	5.0	640	1650	2000	3.68	7.98	9.28
	22	-	-	-	-	6.00	-	-	-	-	2.4	6.0	6.8	640	2020	2500	3.68	9.56	11.60
	24	-	-	-	-	7.10	-	-	-	-	2.4	7.1	7.2	660	2390	2960	3.08	11.32	13.73
2 units operation	10	10	-	-	-	2.70	2.70	-	-	-	2.5	5.4	6.3	640	1430	2180	3.64	6.84	10.11
	13	10	-	-	-	3.70	2.70	-	-	-	2.7	6.4	7.1	660	1850	2370	3.75	8.85	10.99
	16	10	-	-	-	4.38	2.63	-	-	-	2.9	7.0	7.3	670	2200	2460	3.81	10.53	11.41
	22	10	-	-	-	5.72	2.58	-	-	-	3.2	8.3	8.6	700	2360	2540	3.98	11.29	11.78
	24	10	-	-	-	6.01	2.29	-	-	-	3.2	8.3	8.6	700	2360	2540	3.98	11.29	11.78
	13	13	-	-	-	3.50	3.50	-	-	-	2.9	7.0	7.3	670	2200	2460	3.81	10.53	11.41
	16	13	-	-	-	3.84	3.16	-	-	-	2.9	7.0	7.3	670	2200	2460	3.81	10.53	11.41
	22	13	-	-	-	5.13	3.17	-	-	-	3.2	8.3	8.6	700	2360	2540	3.98	11.29	11.78
	24	13	-	-	-	5.46	2.84	-	-	-	3.2	8.3	8.6	700	2360	2540	3.98	11.29	11.78
	16	16	-	-	-	3.50	3.50	-	-	-	2.9	7.0	7.3	670	2200	2460	3.81	10.53	11.41
	22	16	-	-	-	4.74	3.56	-	-	-	3.2	8.3	8.6	700	2360	2540	3.98	11.29	11.78
	24	16	-	-	-	5.08	3.22	-	-	-	3.2	8.3	8.6	700	2360	2540	3.98	11.29	11.78
	22	22	-	-	-	4.20	4.20	-	-	-	3.2	8.4	8.7	700	2380	2540	3.98	11.27	11.78
	22	24	-	-	-	3.85	4.55	-	-	-	3.2	8.4	8.7	700	2380	2540	3.98	11.27	11.78
	24	24	-	-	-	4.20	4.20	-	-	-	3.2	8.4	8.7	700	2380	2540	3.98	11.27	11.78

Combination tables

Cooling, 220V

RAS-5M38S3ACV, RAS-5M38S3ACV-ID

Operating status	Combination						Unit capacity (kW)					Cooling capacity (kW)			Power input (W)			Operating current (A)		
	Unit A	Unit B	Unit C	Unit D	Unit E		Unit A	Unit B	Unit C	Unit D	Unit E	Min.	Rated	Max.	Min.	Rated	Max.	Min.	Rated	Max.
3 units operation	10	10	10	-	-		2.70	2.70	2.70	-	-	3.8	8.1	8.7	950	2400	2850	5.40	11.48	13.22
	13	10	10	-	-		3.46	2.52	2.52	-	-	4.1	8.5	9.5	980	2460	2980	5.57	11.77	13.82
	16	10	10	-	-		3.86	2.32	2.32	-	-	4.1	8.5	9.5	980	2430	2980	5.57	11.63	13.82
	22	10	10	-	-		4.63	2.08	2.08	-	-	4.1	8.8	9.6	970	2380	2970	5.51	11.39	13.78
	24	10	10	-	-		5.00	1.90	1.90	-	-	4.1	8.8	9.6	970	2380	2970	5.51	11.39	13.78
	13	13	10	-	-		3.11	3.11	2.27	-	-	4.1	8.5	9.5	970	2430	2980	5.51	11.63	13.82
	16	13	10	-	-		3.51	2.89	2.11	-	-	4.1	8.5	9.5	970	2430	2980	5.51	11.63	13.82
	22	13	10	-	-		4.26	2.63	1.92	-	-	4.1	8.8	9.6	970	2380	2970	5.51	11.39	13.78
	24	13	10	-	-		4.63	2.41	1.76	-	-	4.1	8.8	9.6	970	2380	2970	5.51	11.39	13.78
	16	16	10	-	-		3.35	3.35	2.01	-	-	4.1	8.7	9.6	970	2430	2980	5.51	11.63	13.82
	22	16	10	-	-		4.00	3.00	1.80	-	-	4.1	8.8	9.6	970	2380	2970	5.51	11.39	13.78
	24	16	10	-	-		4.37	2.77	1.66	-	-	4.1	8.8	9.6	970	2380	2970	5.51	11.39	13.78
	13	13	13	-	-		2.83	2.83	2.83	-	-	4.1	8.5	9.5	970	2430	2980	5.51	11.51	13.82
	16	13	13	-	-		3.21	2.64	2.64	-	-	4.1	8.5	9.5	970	2430	2980	5.51	11.51	13.82
	22	13	13	-	-		3.94	2.43	2.43	-	-	4.1	8.8	9.6	970	2380	2970	5.51	11.27	13.78
	24	13	13	-	-		4.31	2.25	2.25	-	-	4.1	8.8	9.6	970	2380	2970	4.90	11.39	13.78
	16	16	13	-	-		3.01	3.01	2.48	-	-	4.1	8.5	9.5	970	2430	2980	4.90	11.63	13.82
	16	16	16	-	-		2.83	2.83	2.83	-	-	4.1	8.5	9.5	970	2430	2980	4.90	11.63	13.82
	22	16																		

Combination tables

Cooling, 220V

RAS-5M38S3ACV, RAS-5M38S3ACV-ID

Operating status	Combination					Unit capacity (kW)					Cooling capacity (kW)			Power input (W)			Operating current (A)		
	Unit A	Unit B	Unit C	Unit D	Unit E	Unit A	Unit B	Unit C	Unit D	Unit E	Min.	Rated	Max.	Min.	Rated	Max.	Min.	Rated	Max.
5 units operation	16	13	13	10	10	2.86	2.35	2.35	1.72	1.72	3.7	11.0	12.0	950	3280	3550	4.80	15.69	16.47
	16	16	13	10	10	2.73	2.73	2.25	1.64	1.64	3.7	11.0	12.0	950	3280	3550	4.80	15.69	16.47
	13	13	13	13	10	2.33	2.33	2.33	2.33	1.70	3.7	11.0	12.0	950	3280	3550	4.80	15.69	16.47
	16	13	13	13	10	2.71	2.22	2.22	2.22	1.62	3.7	11.0	12.0	950	3280	3550	4.80	15.69	16.47
	16	16	13	13	10	2.59	2.59	2.13	2.13	1.55	3.7	11.0	12.0	950	3280	3550	4.80	15.69	16.47
	13	13	13	13	13	2.20	2.20	2.20	2.20	2.20	3.7	11.0	12.0	950	3280	3550	4.80	15.69	16.47
	16	13	13	13	13	2.56	2.11	2.11	2.11	2.11	3.7	11.0	12.0	950	3280	3550	4.80	15.69	16.47
	16	16	13	13	13	2.46	2.46	2.02	2.02	2.02	3.7	11.0	12.1	950	3240	3550	4.80	15.50	16.47
	22	10	10	10	10	3.93	1.77	1.77	1.77	1.77	3.7	11.0	12.1	950	3240	3550	4.80	15.50	16.47
	22	13	10	10	10	3.71	2.29	1.67	1.67	1.67	3.7	11.0	12.1	950	3240	3550	4.80	15.50	16.47
	22	13	13	10	10	3.51	2.16	2.16	1.58	1.58	3.7	11.0	12.1	950	3240	3550	4.80	15.50	16.47
	22	13	13	13	10	3.33	2.06	2.06	2.06	1.50	3.7	11.0	12.1	950	3240	3550	4.80	15.50	16.47
	24	10	10	10	10	4.36	1.66	1.66	1.66	1.66	3.7	11.0	12.1	950	3240	3550	4.80	15.50	16.47
	24	13	10	10	10	4.13	2.15	1.57	1.57	1.57	3.7	11.0	12.1	950	3240	3550	4.80	15.50	16.47
	22	13	13	10	10	3.92	2.05	2.05	1.49	1.49	3.7	11.0	12.1	950	3240	3550	4.80	15.50	16.47

Cooling, 230V

Operating status	Combination					Unit capacity (kW)					Cooling capacity (kW)			Power input (W)			Operating current (A)		
	Unit A	Unit B	Unit C	Unit D	Unit E	Unit A	Unit B	Unit C	Unit D	Unit E	Min.	Rated	Max.	Min.	Rated	Max.	Min.	Rated	Max.
1 unit operation	10	-	-	-	-	2.70	-	-	-	-	1.4	2.7	3.2	640	750	950	3.83	4.43	4.64
	13	-	-	-	-	3.70	-	-	-	-	1.4	3.7	4.4	640	1200	1520	3.68	6.20	7.20
	16	-	-	-	-	4.50	-	-	-	-	1.4	4.5	5.0	640	1650	2000	3.68	7.98	9.28
	22	-	-	-	-	6.00	-	-	-	-	2.4	6.0	6.8	640	2020	2500	3.68	9.56	11.60
	24	-	-	-	-	7.10	-	-	-	-	2.4	7.1	7.2	660	2390	2960	3.08	11.32	13.73
2 units operation	10	10	-	-	-	2.70	2.70	-	-	-	2.5	5.4	6.3	640	1430	2180	3.48	6.54	9.67
	13	10	-	-	-	3.70	2.70	-	-	-	2.7	6.4	7.1	660	1850	2370	3.59	8.47	10.51
	16	10	-	-	-	4.38	2.63	-	-	-	2.9	7.0	7.3	670	2200	2460	3.64	10.07	10.91
	22	10	-	-	-	5.72	2.58	-	-	-	3.2	8.3	8.6	700	2360	2540	3.80	10.80	11.27
	24	10	-	-	-	6.01	2.29	-	-	-	3.2	8.3	8.6	700	2360	2540	3.80	10.80	11.27
	13	13	-	-	-	3.50	3.50	-	-	-	2.9	7.0	7.3	670	2200	2460	3.64	10.07	10.91
	16	13	-	-	-	3.84	3.16	-	-	-	2.9	7.0	7.3	670	2200	2460	3.64	10.07	10.91
	22	13	-	-	-	5.13	3.17	-	-	-	3.2	8.3	8.6	700	2360	2540	3.80	10.80	11.27
	24	13	-	-	-	5.46	2.84	-	-	-	3.2	8.3	8.6	700	2360	2540	3.80	10.80	11.27
	16	16	-	-	-	3.50	3.50	-	-	-	2.9	7.0	7.3	670	2200	2460	3.64	10.07	10.91
	22	16	-	-	-	4.74	3.56	-	-	-	3.2	8.3	8.6	700	2360	2540	3.80	10.80	11.27
	24	16	-	-	-	5.08	3.22	-	-	-	3.2	8.3	8.6	700	2360	2540	3.80	10.80	11.27
	22	22	-	-	-	4.20	4.20	-	-	-	3.2	8.4	8.7	700	2380	2540	3.80	10.78	11.27
	22	24	-	-	-	3.85	4.55	-	-	-	3.2	8.4	8.7	700	2380	2540	3.80	10.78	11.27
	24	24	-	-	-	4.20	4.20	-	-	-	3.2	8.4	8.7	700	2380	2540	3.80	10.78	11.27
3 units operation	10	10	10	-	-	2.70	2.70	2.70	-	-	3.8	8.1	8.7	950	2400	2850	5.16	10.98	12.64
	13	10	10	-	-	3.46	2.52	2.52	-	-	4.1	8.5	9.5	980	2460	2980	5.33	11.26	13.22
	16	10	10	-	-	3.86	2.32	2.32	-	-	4.1	8.5	9.5	980	2430	2980	5.33	11.12	13.22
	22	10	10	-	-	4.63	2.08	2.08	-	-	4.1	8.8	9.6	970	2380	2970	5.27	10.89	13.18
	24	10	10	-	-	5.00	1.90	1.90	-	-	4.1	8.8	9.6	970	2380	2970	5.27	10.89	13.18
	13	13	10	-	-	3.11	3.11	2.27	-	-	4.1	8.5	9.5	970	2430	2980	5.27	11.12	13.22
	16	13	10	-	-	3.51	2.89	2.11	-	-	4.1	8.5	9.5	970	2430	2980	5.27	11.12	13.22
	22	13	10	-	-	4.26	2.63	1.92	-	-	4.1	8.8	9.6	970	2380	2970	5.27	10.89	13.18
	24	13	10	-	-	4.63	2.41	1.76	-	-	4.1	8.8	9.6	970	2380	2970	5.27	10.89	13.18
	16	16	10	-	-	3.35	3.35	2.01	-	-	4.1	8.7	9.6	970	2430	2980	5.27	11.12	13.22
	22	16	10	-	-	4.00	3.00	1.80	-	-	4.1	8.8	9.6	970	2380	2970	5.27	10.89	13.18
	24	16	10	-	-	4.37	2.77	1.66	-	-	4.1	8.8	9.6	970	2380	2970	5.27	11.89	13.18
	13	13	13	-	-	2.83	2.83	2.83	-	-	4.1	8.5	9.5	970	2430	2980	5.27	11.01	13.22
	16	13	13	-	-	3.21	2.64	2.64	-	-	4.1	8.5	9.5	970	2430	2980	5.27	11.01	13.22
	22	13	13	-	-	3.94	2.43	2.43	-	-	4.1	8.8	9.6	970	2380	2970	5.27	10.78	13.18
	24	13	13	-	-	4.31	2.25	2.25	-	-	4.1	8.8	9.6	970	2380	2970	4.69	10.89	13.18
	16	16	13	-	-	3.01	3.01	2.48	-	-	4.1	8.5	9.5	970	2430	2980	4.69	11.12	13.22

Combination tables

Cooling, 230V

RAS-5M38S3ACV, RAS-5M38S3ACV-ID

Operating status	Combination					Unit capacity (kW)					Cooling capacity (kW)			Power input (W)			Operating current (A)		
	Unit A	Unit B	Unit C	Unit D	Unit E	Unit A	Unit B	Unit C	Unit D	Unit E	Min.	Rated	Max.	Min.	Rated	Max.	Min.	Rated	Max.
3 units operation	16		16	-	-	2.83	2.83	2.83	-	-	4.1	8.5	9.5	970	2430	2980	4.69	11.12	13.22
	22	16	13	-	-	3.72	2.79	2.29	-	-	4.1	8.8	9.6	970	2380	2970	4.69	10.89	13.18
	24	16	13	-	-	4.08	2.59	2.13	-	-	4.1	8.8	9.6	970	2380	2970	4.69	10.89	13.18
	22	22	10	-	-	3.63	3.63	1.63	-	-	4.3	8.9	9.7	970	2380	2970	4.69	10.89	13.18
	24	22	10	-	-	4.00	3.38	1.52	-	-	4.1	8.9	9.7	970	2380	2970	4.69	10.89	13.18
	24	24	10	-	-	3.74	3.74	1.42	-	-	4.1	8.9	9.7	970	2380	2970	4.69	10.89	13.18
4 units operation	10	10	10	10	-	2.38	2.38	2.38	2.38	-	4.1	9.5	10.0	940	2600	3000	4.54	11.90	13.31
	13	10	10	10	-	3.01	2.20	2.20	2.20	-	4.1	9.6	10.2	940	2660	2980	4.54	12.17	13.22
	16	10	10	10	-	3.54	2.12	2.12	2.12	-	4.2	9.9	10.3	950	2820	2980	4.59	12.91	13.22
	22	10	10	10	-	4.26	1.91	1.91	1.91	-	4.2	10.0	10.3	950	2820	2980	4.59	12.91	13.22
	24	10	10	10	-	4.67	1.78	1.78	1.78	-	4.2	10.0	10.3	950	2820	2980	4.59	12.91	13.22
	13	13	10	10	-	2.78	2.78	2.03	2.03	-	4.2	9.6	10.3	950	2660	2980	4.59	12.17	13.22
	16	13	10	10	-	3.28	2.69	1.97	1.97	-	4.2	9.9	10.3	950	2820	2980	4.59	12.91	13.22
	22	13	10	10	-	3.97	2.45	1.79	1.79	-	4.2	10.0	10.3	950	2820	2980	4.59	12.91	13.22
	24	13	10	10	-	4.38	2.28	1.67	1.67	-	4.2	10.0	10.3	950	2820	2980	4.59	12.91	13.22

Combination tables

Cooling, 240V

RAS-5M38S3ACV, RAS-5M38S3ACV-ID

Operating status	Combination					Unit capacity (kW)					Cooling capacity (kW)			Power input (W)			Operating current (A)		
	Unit A	Unit B	Unit C	Unit D	Unit E	Unit A	Unit B	Unit C	Unit D	Unit E	Min.	Rated	Max.	Min.	Rated	Max.	Min.	Rated	Max.
1 unit operation	10	-	-	-	-	2.70	-	-	-	-	1.4	2.7	3.2	640	750	950	3.51	4.06	4.26
	13	-	-	-	-	3.70	-	-	-	-	1.4	3.7	4.4	640	1200	1520	3.38	5.68	6.60
	16	-	-	-	-	4.50	-	-	-	-	1.4	4.5	5.0	640	1650	2000	3.38	7.31	8.50
	22	-	-	-	-	6.00	-	-	-	-	2.4	6.0	6.8	640	2020	2500	3.38	8.77	10.63
	24	-	-	-	-	7.10	-	-	-	-	2.4	7.1	7.2	660	2390	2960	3.48	10.37	12.59
2 units operation	10	10	-	-	-	2.70	2.70	-	-	-	2.5	5.4	6.3	640	1430	2180	3.33	6.27	9.27
	13	10	-	-	-	3.70	2.70	-	-	-	2.7	6.4	7.1	660	1850	2370	3.44	8.11	10.08
	16	10	-	-	-	4.38	2.63	-	-	-	2.9	7.0	7.3	670	2200	2460	3.49	9.65	10.46
	22	10	-	-	-	5.72	2.58	-	-	-	3.2	8.3	8.6	700	2360	2540	3.65	10.35	10.80
	24	10	-	-	-	6.01	2.29	-	-	-	3.2	8.3	8.6	700	2360	2540	3.65	10.35	10.80
	13	13	-	-	-	3.50	3.50	-	-	-	2.9	7.0	7.3	670	2200	2460	3.49	9.65	10.46
	16	13	-	-	-	3.84	3.16	-	-	-	2.9	7.0	7.3	670	2200	2460	3.49	9.65	10.46
	22	13	-	-	-	5.13	3.17	-	-	-	3.2	8.3	8.6	700	2360	2540	3.65	10.35	10.80
	24	13	-	-	-	5.46	2.84	-	-	-	3.2	8.3	8.6	700	2360	2540	3.65	10.35	10.80
	16	16	-	-	-	3.50	3.50	-	-	-	2.9	7.0	7.3	670	2200	2460	3.65	10.35	10.80
	22	16	-	-	-	4.74	3.56	-	-	-	3.2	8.3	8.6	700	2360	2540	3.65	10.35	10.80
	24	16	-	-	-	5.08	3.22	-	-	-	3.2	8.3	8.6	700	2360	2540	3.65	10.33	10.80
	22	22	-	-	-	4.20	4.20	-	-	-	3.2	8.4	8.7	700	2380	2540	3.65	10.33	10.80
	22	24	-	-	-	3.85	4.55	-	-	-	3.2	8.4	8.7	700	2380	2540	3.65	10.33	10.80
	24	24	-	-	-	4.20	4.20	-	-	-	3.2	8.4	8.7	700	2380	2540	3.65	10.33	10.80
3 units operation	10	10	10	-	-	2.70	2.70	2.70	-	-	3.8	8.1	8.7	950	2400	2850	4.95	10.53	12.12
	13	10	10	-	-	3.46	2.52	2.52	-	-	4.1	8.5	9.5	980	2460	2980	5.10	10.79	12.67
	16	10	10	-	-	3.86	2.32	2.32	-	-	4.1	8.5	9.5	980	2430	2980	5.10	10.66	12.67
	22	10	10	-	-	4.63	2.08	2.08	-	-	4.1	8.8	9.6	970	2380	2970	5.05	10.44	12.63
	24	10	10	-	-	5.00	1.90	1.90	-	-	4.1	8.8	9.6	970	2380	2970	5.05	10.44	12.63
	13	13	10	-	-	3.11	3.11	2.27	-	-	4.1	8.5	9.5	970	2430	2980	5.05	10.66	12.67
	16	13	10	-	-	3.51	2.89	2.11	-	-	4.1	8.5	9.5	970	2430	2980	5.05	10.66	12.67
	22	13	10	-	-	4.26	2.63	1.92	-	-	4.1	8.8	9.6	970	2380	2970	5.05	10.44	12.63
	24	13	10	-	-	4.63	2.41	1.76	-	-	4.1	8.8	9.6	970	2380	2970	5.05	10.44	12.63
	16	16	10	-	-	3.35	3.35	2.01	-	-	4.1	8.7	9.6	970	2430	2980	5.05	10.66	12.67
	22	16	10	-	-	4.00	3.00	1.80	-	-	4.1	8.8	9.6	970	2380	2970	5.05	10.44	12.63
	24	16	10	-	-	4.37	2.77	1.66	-	-	4.1	8.8	9.6	970	2380	2970	5.05	10.44	12.63
	13	13	13	-	-	2.83	2.83	2.83	-	-	4.1	8.5	9.5	970	2430	2980	5.05	10.55	12.67
	16	13	13	-	-	3.21	2.64	2.64	-	-	4.1	8.5	9.5	970	2430	2980	5.05	10.55	12.67
	22	13	13	-	-	3.94	2.43	2.43	-	-	4.1	8.8	9.6	970	2380	2970	5.05	10.33	12.63
	24	13	13	-	-	4.31	2.25	2.25	-	-	4.1	8.8	9.6	970	2380	2970	4.49	10.44	12.63
	16	16	13	-	-	3.01	3.01	2.48	-	-	4.1	8.5	9.5	970	2430	2980	4.49	10.66	12.67
	16	16	16	-	-	2.83	2.83	2.83	-	-	4.1	8.5	9.5	970	2430	2980	4.49	10.66	12.67
	22	16	13	-	-	3.72	2.79	2.29	-	-	4.1	8.8	9.6	970	2380	2970	4.49	10.44	12.63
	24	16	13	-	-	4.08	2.59	2.13	-	-	4.1	8.8	9.6	970	2380	2970	4.49	10.44	12.63
	22	22	10	-	-	3.63	3.63	1.63	-	-	4.3	8.9	9.7	970	2380	2970	4.49	10.44	12.63
	24	22	10	-	-	4.00	3.38	1.52	-	-	4.1	8.9	9.7	970	2380	2970	4.49	10.44	12.63
	24	24	10	-	-	3.74	3.74	1.42	-	-	4.1	8.9	9.7	970	2380	2970	4.49	10.44	12.63
4 units operation	10	10	10	10	-	2.38	2.38	2.38	2.38	-	4.1	9.5	10.0	940	2600	3000	4.35	11.40	12.76
	13	10	10	10	-	3.01	2.20	2.20	2.20	-	4.1	9.6	10.2	940	2660	2980	4.35	11.67	12.67
	16	10	10	10	-	3.54	2.12	2.12	2.12	-	4.2	9.9	10.3	950	2820	2980	4.40	12.37	12.67
	22	10	10	10	-	4.26	1.91	1.91	1.91	-	4.2	10.0	10.3	950	2820	2980	4.40	12.37	12.67
	24	10	10	10	-	4.67	1.78	1.78	1.78	-	4.2	10.0	10.3	950	2820	2980	4.40	12.37	12.67
	13	13	10	10	-	2.78	2.78	2.03	2.03	-	4.2	9.6	10.3	950	2660	2980	4.40	11.67	12.67
	16	13	10	10	-	3.28	2.69	1.97	1.97	-	4.2	9.9	10.3	950	2820	2980	4.40	12.37	12.67
	22	13	10	10	-	3.97	2.45	1.79	1.79	-	4.2	10.0	10.3	950	2820	2980	4.40	12.37	12.67
	24	13	10	10	-	4.38	2.28	1.67	1.67	-	4.2	10.0	10.3	950	2820	2980	4.40	12.37	12.67
	16	16	10	10	-	3.09	3.09	1.86	1.86	-	4.2	9.9	10.3	950	2820	2980	4.40	12.37	12.67
	22	16	10	10	-	3.77	2.83	1.70	1.70	-	4.2	10.0	10.3	950	2820	2980	4.40	12.37	12.67
	24	16	10	10	-	4.18	2.65	1.59	1.59	-	4.2	10.0	10.3	950	2820	2980	4.40	12.37	12.67

Combination tables

Cooling, 240V

RAS-5M38S3ACV, RAS-5M38S3ACV-ID

Operating status	Combination					Unit capacity (kW)					Cooling capacity (kW)			Power input (W)			Operating current (A)		
	Unit A	Unit B	Unit C	Unit D	Unit E	Unit A	Unit B	Unit C	Unit D	Unit E	Min.	Rated	Max.	Min.	Rated	Max.	Min.	Rated	Max.
4 units operation	13	13	13	10	-	2.60	2.60	2.60	1.90	-	4.2	9.7	10.3	950	2790	2980	4.40	12.24	12.67
	16	13	13	10	-	3.05	2.51	2.51	1.83	-	4.2	9.9	10.3	950	2820	2980	4.40	12.37	12.67
	22	13	13	10	-	3.73	2.30	2.30	1.68	-	4.2	10.0	10.3	950	2820	2980	4.40	12.37	12.67
	24	13	13	10	-	4.13	2.15	2.15	1.57	-	4.2	10.0	10.3	950	2820	2980	4.40	12.37	12.67
	16	16	13	10	-	2.89	2.89	2.38	1.74	-	4.2	9.9	10.3	950	2820	2980	4.40	12.37	12.67
	22	16	13	10	-	3.55	2.66	2.19	1.60	-	4.2	10.0	10.3	950	2820	2980	4.40	12.37	12.67
	24	16	13	10	-	3.94	2.50	2.06	1.50	-	4.2	10.0	10.3	950	2820	2980	4.40	12.37	12.67
	13	13	13	13	-	2.43	2.43	2.43	2.43	-	4.2	9.7	10.3	950	2790	2980	4.40	12.24	12.67
	16	13	13	13	-	2.86	2.35	2.35	2.35	-	4.2	9.9	10.3	950	2820	2980	4.40	12.37	12.67
	22	13	13	13	-	3.51	2.16	2.16	2.16	-	4.2	10.0	10.3	950	2820	2980	4.40	12.37	12.67
	24	13	13	13	-	3.90	2.03	2.03	2.03	-	4.2	10.0	10.3	950	2820	2980	4.40	12.37	12.67
	16	16	13	13	-	2.72	2.72	2.23	2.23	-	4.2	9.9	10.3	950	2820	2980	4.40	12.37	12.67
	22	16	13	13	-	3.35	2.51	2.07	2.07	-	4.2	10.0	10.3	950	2820	2980	4.40	12.37	12.67
	24	16	13	13	-	3.74	2.37	1.95	2.07	-	4.2	10.0	10.3	950	2820	2980	4.40	12.37	12.67
5 units operation	10	10	10	10	10	2.20	2.20	2.20	2.20	2.20	3.7	11.0	11.5	950	3340	3550	4.40	14.65	15.09
	13	10	10	10	10	2.81	2.05	2.05	2.05	2.05	3.7	11.0	11.5	950	3340	3550	4.40	14.65	15.09
	16	10	10	10	10	3.24	1.94	1.94	1.94	1.94	3.7	11.0	11.6	950	3300	3550	4.40	14.47	15.09
	13	13	10	10	10	2.63	2.63	1.92	1.92	1.92	3.7	11.0	11.6	950	3300	3550	4.40	14.47	15.09
	16	13	10	10	10	3.04	2.50	1.82	1.82	1.82	3.7	11.0	11.8	950	3300	3550	4.40	14.47	15.09
	16	16	10	10	10	2.89	2.89	1.74	1.74	1.74	3.7	11.0	12.0	950	3280	3550	4.40	14.39	15.09
	13	13	13	10	10	2.47	2.47	2.47	1.80	1.80	3.7	11.0	11.8	950	3300	3550	4.40	14.47	15.09
	16	13	13	10	10	2.86	2.35	2.35	1.72	1.72	3.7	11.0	12.0	950	3280	3550	4.40	14.39	15.09
	16	16	13	10	10	2.73	2.73	2.25	1.64	1.64	3.7	11.0	12.0	950	3280	3550	4.40	14.39	15.09
	13	13	13	13	10	2.33	2.33	2.33	2.33	1.70	3.7	11.0	12.0	950	3280	3550	4.40	14.39	15.09
	16	13	13	13	10	2.71	2.22	2.22	2.22	1.62	3.7	11.0	12.0	950	3280	3550	4.40	14.39	15.09
	16	16	13	13	10	2.59	2.59	2.13	2.13	1.55	3.7	11.0	12.0	950	3280	3550	4.40	14.39	15.09
	13	13	13	13	13	2.20	2.20	2.20	2.20	2.20	3.7	11.0	12.0	950	3280	3550	4.40	14.39	15.09
	16	13	13	13	13	2.56	2.11	2.11	2.11	2.11	3.7	11.0	12.0	950	3280	3550	4.40	14.39	15.09
	16	16	13	13	13	2.46	2.46	2.02	2.02	2.02	3.7	11.0	12.1	950	3240	3550	4.40	14.21	15.09
	22	10	10	10	10	3.93	1.77	1.77	1.77	1.77	3.7	11.0	12.1	950	3240	3550	4.40	14.21	15.09
	22	13	10	10	10	3.71	2.29	1.67	1.67	1.67	3.7	11.0	12.1	950	3240	3550	4.40	14.21	15.09
	22	13	13	10	10	3.51	2.16	2.16	1.58	1.58	3.7	11.0	12.1	950	3240	3550	4.40	14.21	15.09
	22	13	13	13	10	3.33	2.06	2.06	2.06	1.50	3.7	11.0	12.1	950	3240	3550	4.40	14.21	15.09
	24	10	10	10	10	4.36	1.66	1.66	1.66	1.66	3.7	11.0	12.1	950	3240	3550	4.40	14.21	15.09
24	13	10	10	10	4.13	2.15	1.57	1.57	1.57	3.7	11.0	12.1	950	3240	3550	4.40	14.21	15.09	
24	13	13	10	10	3.92	2.05	2.05	1.49	1.49	3.7	11.0	12.1	950	3240	3550	4.40	14.21	15.09	