



INVERTER DUCTED SPLIT

AIR CONDITIONERS

Capacity 18-60K

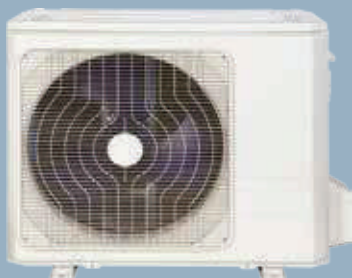
EDME/ESME/ESMD - 50Hz

R410A



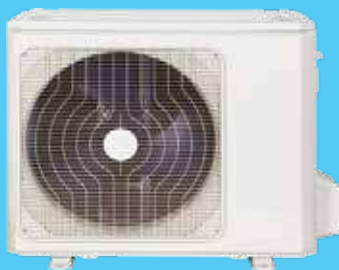
MAKING LIFE COOL



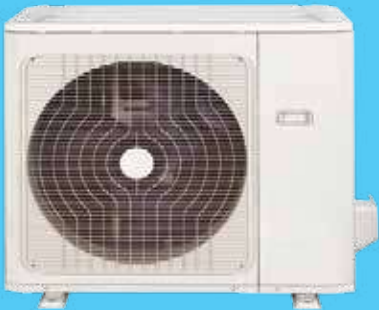




Inverter SYSTEM



An Inverter compressor is designed to vary its speed as the demands in the room change. Inverter compressors are designed to soft start therefore causing no dips in power supply. Single/3 phase AC power is supplied to the outdoor unit where it is rectified and converted into DC power to drive the compressor. The input frequency is then modified to allow the compressor to run at a variety of speeds.



As the compressor speed decreases, the amount of refrigerant entering the indoor unit also decreases. This results in a more comfortable environment as the unit only produces the appropriate amount of cooling or heating required at that time - no more temperature swings. Inverter compressors have been shown greater power reduction when compared to conventional fixed speed equivalents.

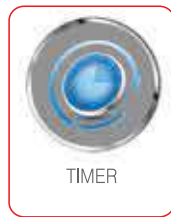
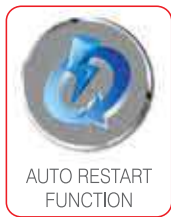
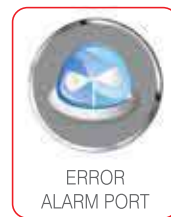
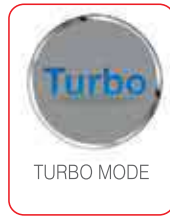


The AWAL inverters use Advanced technology for better, smarter and more cost-efficient year round climate control. Immediately following start up, the DC compressor operates at maximum power to provide almost instant heating or cooling. As the desired air temperature is reached, controller automatically adjusts the compressor's frequency to exactly meet the cooling or heating requirements of the room. The result is exceptionally precise temperature control, less noise and significant energy savings.



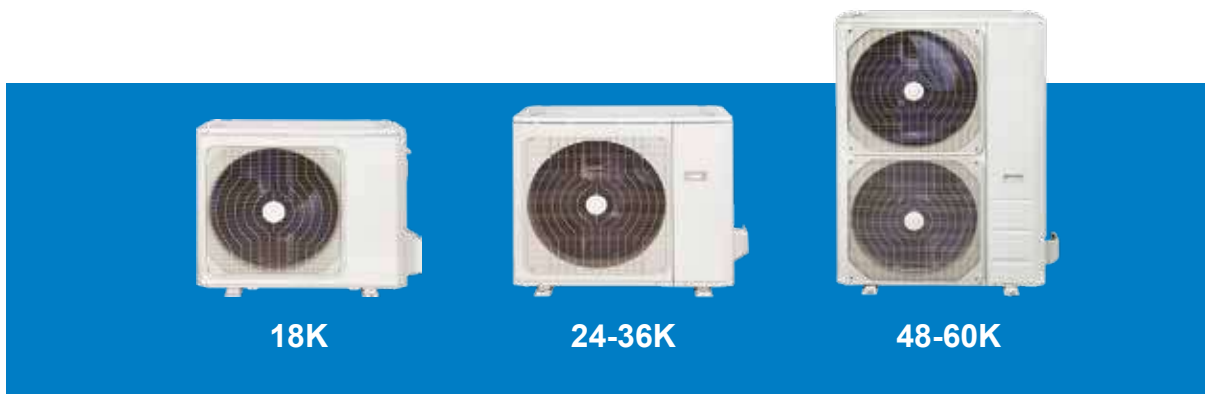
Features

Standard Features



4

Optional Features



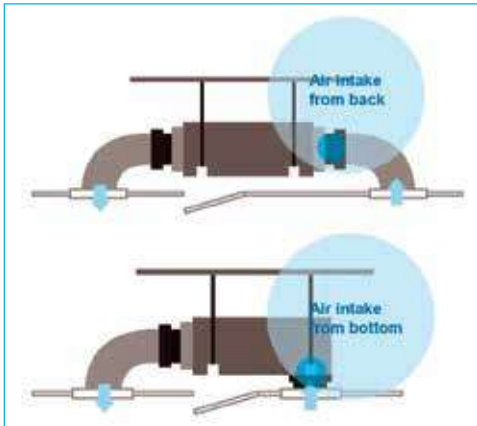
INVERTER SYSTEM



Salient Features

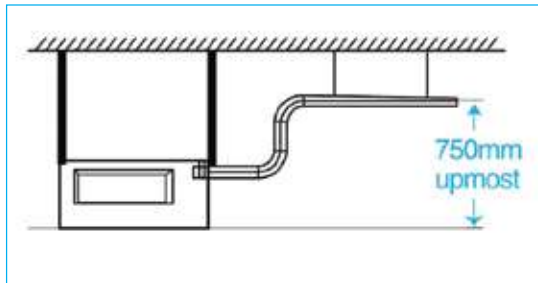
Flexible Air Intake Ways.

Air inlet from rear is standard and from bottom is optional. The size of the plate from bottom and flange from rear is the same, it is easy for installer to change the air inlet from rear side to bottom.



Built - in Drain Pump (Optional)

The drain pump can lift the condensing water up to 750mm.



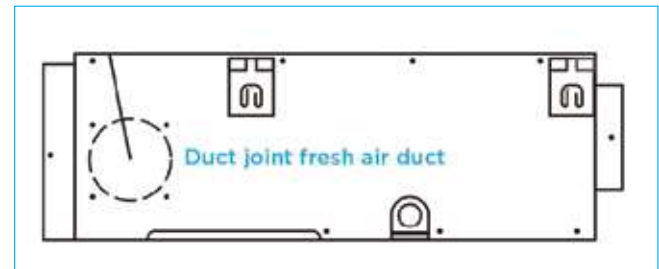
Optional Accessories

Optional accessories are available to meet the different needs of customers and enhance performance



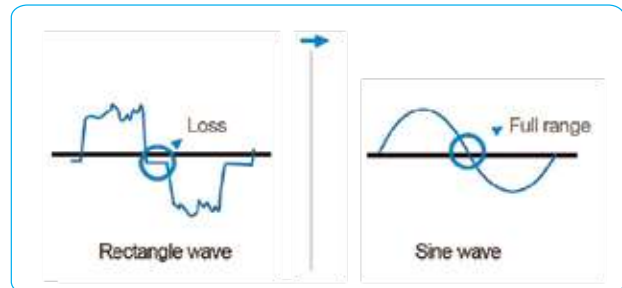
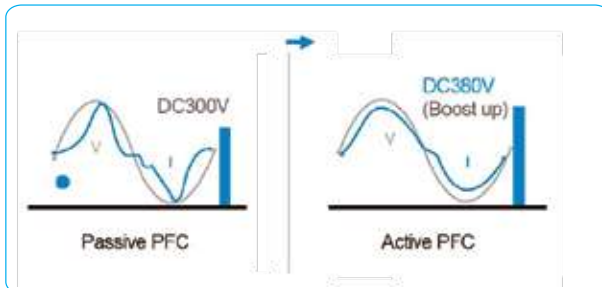
Fresh Air

Fresh Air hole is standard, its easy to connect with air from outside and brings fresh and comfortable feeling



Energy Saving

Cutting edge DC Inverter of sine wave control and active PFC technology make quieter and more economical operation.





Salient Features

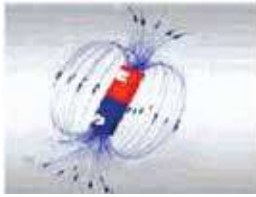
High Efficiency DC inverter Compressor



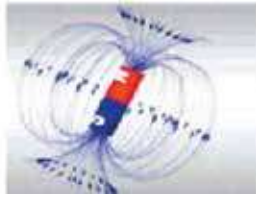
- ▶ From famous inverter compressor manufacturer
- ▶ R410a Eco friendly refrigerant
- ▶ Small torque fluctuation, low vibration and quiet operation
- ▶ High efficiency due to its patent internal structure design
- ▶ Internal oil circulation structure
- ▶ High reliability
- ▶ Wide rotation speed range
- ▶ Neodymium permanent magnetic rotor, has powerful magnetic force, large torque and high efficiency.
- ▶ Concentrated winding, improving low frequency efficiency.

Neodymium permanent magnet rotor

Powerful magnetic force, large force moment and high efficiency



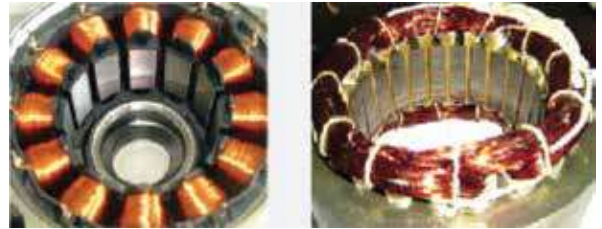
Ferrite magnet



Neodymium permanent magnet

Concentrated winding

Magnetic efficiency is 12% higher than distributed winding



Concentrated winding

- ▶ High efficiency DC fan motor is from well-known brand
- ▶ Low noise and high efficiency because of high-density
- ▶ wire winding engineering
- ▶ Brushless with built-in sensor

DC MOTOR



AC MOTOR

- Low Efficiency
- Big Noise
- Not adjustable



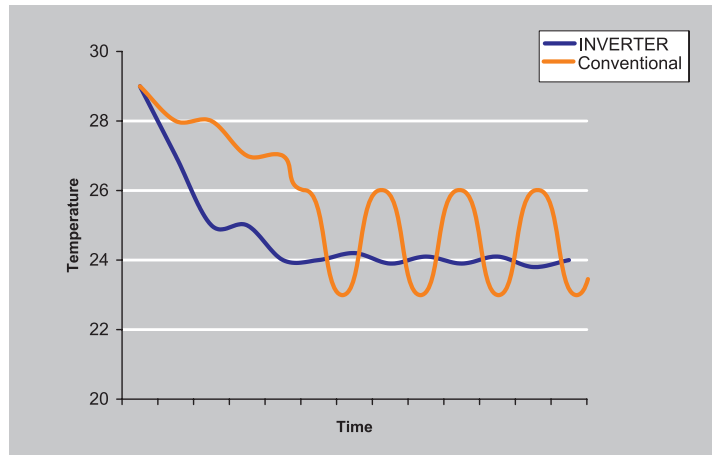


Advantages of Inverter Compressor

Advantages of an Inverter Air-Conditioner

More Comfort

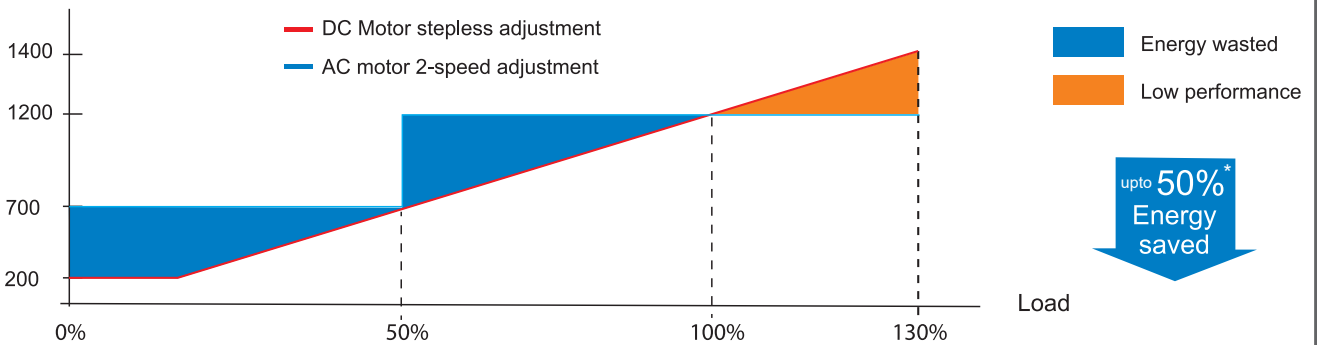
As soon as the inverter air conditioner is switched on, it provides the exact amount of power needed to rapidly cool or heat of mthe room. This enables it to reach the set temperature in about a quarter the time required by non inverter models. So you are comfortable soon after you arrive home on a hot summer day, or on a cold winter morning.



Stepless Control

DC fan motor can be stepless controlled by outdoor PCB according to system's operating pressure. And it is able to reduce the energy consumption and maintain the system in the best performance.

Load- Revolution curve



* As per our internal verification process



Engineering Specifications

Low Static / High Static Models

TECHNICAL SPECIFICATIONS									
Indoor Model code	EDME18FH	EDME24FH	ESME36FH	ESME48FH	ESME60FH	ESME84FH	ESMD48FH	ESMD60FH	
Power supply (Indoor unit)	230V/1Ph, 50Hz	230V/1Ph, 50Hz	230V/1Ph, 50Hz	230V/1Ph, 50Hz	230V/1Ph, 50Hz	230V/1Ph, 50Hz	230V/1Ph, 50Hz	230V/1Ph, 50Hz	230V/1Ph, 50Hz
Outdoor Model code	CSD18FH	CSD24FH	CSD36FH	CSD48FH	CSD60FH	CSD84FH	CSD48FH	CSD60FH	
Power supply (Outdoor Unit)	V-phi-Hz	230V/1Ph, 50Hz	230V/1Ph, 50Hz	230V/1Ph, 50Hz	230V/1Ph, 50Hz	230V/1Ph, 50Hz	230V/1Ph, 50Hz	230V/1Ph, 50Hz	380-420V-3-50
Cooling (T1)	Capacity	Btu/h	18700	25300	34800	48000	54100	43800	5300
	Input	W	1539	1951	2806	4000	4479	3680	4479
	Current	A	6.77	8.61	12.50	17.89	19.62	14.79	18.50
Cooling (T3)	Capacity	Btu/h/W	12.151	12.968	12.402	12.000	11.90	12.296	11.90
	Input	W	16600	22400	31400	45000	48100	42820	47700
	Current	A	1773	2413	3470	5172	5278	4941	5683
Heating	Capacity	Btu/h/W	7.77	10.56	15.34	22.94	23.42	8.90	8.99
	Input	W	20810	27330	34120	58000	60390	52740	56140
	Current	A	1532	2152	2439	4579	4370	3974	4285
Indoor fan motor	COP	W/W	3.982	3.750	3.713	3.713	4.050	3.89	3.84
	Type	DC	DC	DC	DC	DC	DC	DC	DC
	Speed(H/Med/L)	r/min	176	176	420	560	560	560	560
Indoor coil	Number of rows		4	3	4	4	4	4	4
	Fin type	Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum
	Tube outside dia and type	Φ7/innergroove tube	Φ7/innergroove tube	Φ7/innergroove tube	Φ9.52/inner groove tube	Φ9.52/inner groove tube	Φ9.52/inner groove tube	Φ9.52/inner groove tube	Φ9.52/inner groove tube
Indoor air flow (H/Med/L) (under rated)	Indoor air flow (H/Med/L)	m ³ /h	970/805/630	1365/1100/880	2250/1880/1360	2630/2050/1450	3000/2450/1900	2835/2425/1985	3365/2945/2470
	ESP	Pa	25	25	37	50	50	50	50
	Rated	Pa	0-80	0-120	0-120	0-160	0-160	0-160	0-160
Indoor noise level (H/Med/L) (under rated)	Indoor noise level (H/Med/L)	dB(A)	43/39/34	40/38/36	49/46/43	51/48/44	51/48/44	49/47/44	51/48/45
	Dimension (WxDxH)	mm	880x674x210	1100x742x210	1200x874x210	1200x874x210	1400x858x440	1200x625x480	1400x858x440
	Packing (WxDxH)	mm	1070x725x270	1305x805x305	1405x910x365	1485x910x515	1605x910x515	1485x910x515	1605x910x515
Indoor unit	Net/Gross weight	kg	25.8/31	32.6/39.9	44.5/52.7	56.8/65.6	75.3/86.6	55.9/63.7	72.7/84.3
	Drainage water pipe diameter	mm	ODØ25	ODØ25	ODØ25	ODØ25	ODØ25	ODØ25	ODØ25
	Controller	Wired control	Wired control	Wired control	Wired control	Wired control	Wired control	Wired control	Wired control
Compressor	Type	ROTARY/Inverter	ROTARY/Inverter	ROTARY/Inverter	ROTARY/Inverter	ROTARY/Inverter	ROTARY/Inverter	ROTARY/Inverter	ROTARY/Inverter
	Brand	GMCC	GMCC	HIGHLY	GMCC	GMCC	GMCC	GMCC	GMCC
	Thermal protector	INTERNAL	INTERNAL	INTERNAL	INTERNAL	INTERNAL	INTERNAL	INTERNAL	INTERNAL
Outdoor fan motor	Type	DC	DC	DC	DC	DC	DC	DC	DC
	QTY	1	1	1	1+1	1+1	1+1	1+1	1+1
	Speed	r/min	88	150	150	126	126	126	126
Outdoor coil	Number of rows		2.6	2.6	3	3	3	2.6	3
	Fin type	Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum
	Tube size and type	Φ7/innergroove tube	Φ7/innergroove tube	Φ7/innergroove tube	Φ7/innergroove tube	Φ7/innergroove tube	Φ7/innergroove tube	Φ7/innergroove tube	Φ7/innergroove tube
Expansion device	Outdoor noise level (sound pressure)	dB(A)	58	58	63	64	64	65	65
	Dimension (WxDxH)	mm	890x542x673	946x410x810	946x410x810	952x415x1333	952x415x1333	952x415x1333	952x415x1333
	Packing (WxDxH)	mm	995x435x750	1090x500x875	1000x500x875	1095x495x1480	1095x495x1480	1095x495x1480	1095x495x1480
Refrigerant	Net/Gross weight	kg	43.4/46.7	58.6/63.2	66.0/70.9	99.3/112.2	99.9/112.8	94/107.2	97.3/110.3
	Type	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Charged volume	kg	1.6	2.2	3.2	4.4	4.6	4.2	4.4
Refrigerant piping	Liquid side / Gas side	mm(inch)	Φ6.35(Ø1.27) (1/4" (1/2"))	Φ9.52(Ø15.9) (3/8" (5/8"))	Φ9.52(Ø19.3) (3/4")	Φ9.52(Ø19.3) (3/4")	Φ9.52(Ø22.3) (7/8")	Φ9.52(Ø19.3) (3/4")	Φ9.52(Ø22.3) (7/8")
	Max. pipe length	m	25	25	30	30	30	30	30
	Max. difference in level	m	15	20	20	30	30	30	30
Max. ambient temperature	Cooling	°C	18~52	18~52	18~52	18~52	18~52	18~52	18~52
	Heating	°C	-7~24	-7~24	-7~24	-7~24	-7~24	-7~24	-7~24
	QTY per 20' / 40' / 40HQ	Indoor unit	93/189/189	44/96/138	44/96/138	62/130/149	59/124/125	35/72/86	59/124/125

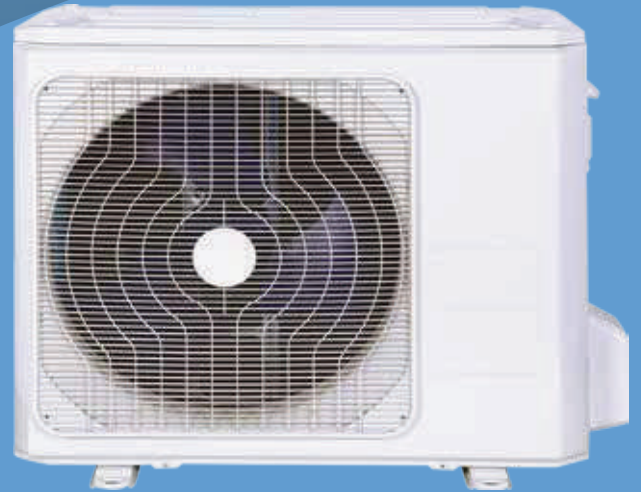
T1 : Nominal Cooling Capacity is based on 80.5°F (27°C) wet bulb indoor conditions and 95°F (35°C) dry bulb ambient outdoor temperature at high speed.
 T3 : Cooling Capacity is based on 84.6°F (29°C) dry bulb, 66.2°F (19°C) wet bulb indoor conditions and 11.5°F (4°C) dry bulb ambient outdoor temperature at high speed.
 H1 : Heating Capacity is based on 68°F (20°C) dry bulb, 59°F (15°C) wet bulb indoor conditions and 44.6°F (7°C) dry bulb ambient outdoor temperature at high speed.
 Specifications are subjected to change without notice in accordance with our policy of continuous research and product development.
 Noise test data is @ 1 meters distance, as per factory test standard.



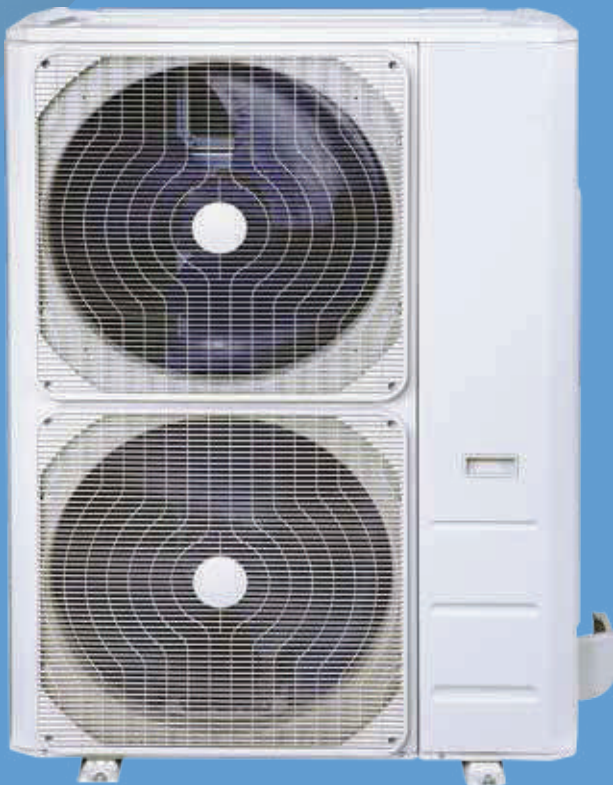
EDME 18-24 & ESME 36



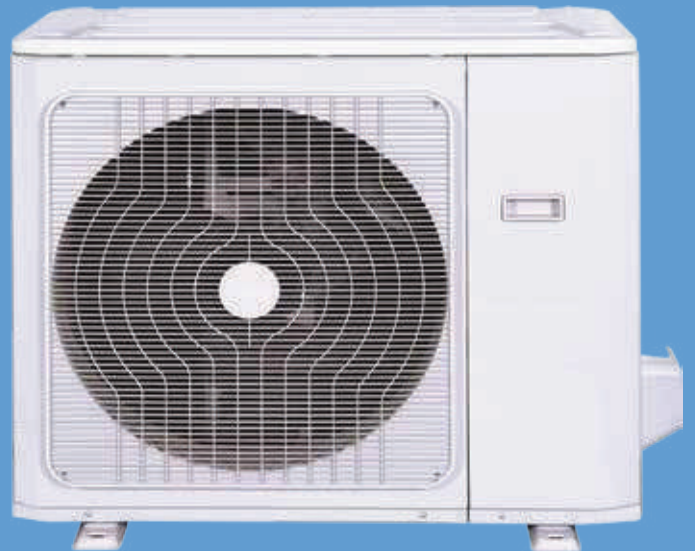
ESMD/ESME 48 & 60



CSD 18



CSD 48-60



CSD 24-36

Cooling Performance

EDME18FH2 + CSD18FH2

		EDME18 + CSD18																	
INDOOR AIR FLOW (CMH)	OUTDOOR DB (°C)	ID WB (°C) ID DB (°C)	17.0				18.0				19.0				22.0				
			24.0	25.0	27.0	29.0	24.0	25.0	27.0	29.0	24.0	25.0	27.0	29.0	24.0	25.0	27.0	29.0	
630	18	TC	5.72	5.74	5.74	5.74	5.89	5.88	5.88	5.88	6.05	6.05	6.05	6.05	6.51	6.51	6.51	6.51	
		S/T	0.67	0.71	0.78	0.85	0.61	0.64	0.72	0.79	0.55	0.58	0.65	0.72	0.41	0.44	0.50	0.57	
		PI	1.07	1.07	1.07	1.07	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.05	1.05	1.05	1.05	
	25	TC	5.36	5.36	5.36	5.36	5.54	5.54	5.54	5.54	5.68	5.68	5.68	5.68	6.11	6.11	6.11	6.11	
		S/T	0.68	0.72	0.80	0.88	0.61	0.65	0.73	0.80	0.55	0.59	0.66	0.74	0.40	0.44	0.51	0.57	
		PI	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	
	30	TC	5.11	5.11	5.11	5.16	5.28	5.28	5.28	5.28	5.42	5.42	5.42	5.42	5.85	5.85	5.85	5.85	
		S/T	0.69	0.73	0.81	0.89	0.62	0.66	0.74	0.82	0.55	0.59	0.67	0.75	0.40	0.44	0.51	0.58	
		PI	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	
	35	TC	4.85	4.85	4.85	4.90	5.02	5.02	5.02	5.02	5.16	5.16	5.25	5.16	5.56	5.56	5.56	5.56	
		S/T	0.70	0.74	0.83	0.91	0.62	0.67	0.75	0.83	0.56	0.60	0.68	0.76	0.40	0.44	0.51	0.59	
		PI	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.48	1.48	1.48	1.48	1.49	1.49	1.49	1.49	
	40	TC	4.53	4.53	4.53	4.57	4.69	4.69	4.69	4.69	4.83	4.83	4.88	4.83	5.21	5.21	5.21	5.21	
		S/T	0.71	0.76	0.86	0.95	0.64	0.68	0.78	0.87	0.56	0.61	0.70	0.79	0.40	0.44	0.52	0.60	
		PI	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.63	1.63	1.63	1.63	1.64	1.64	1.64	1.64	
	46	TC	4.20	4.20	4.20	4.23	4.35	4.35	4.35	4.35	4.49	4.49	4.49	4.49	4.86	4.86	4.86	4.86	
		S/T	0.72	0.77	0.87	0.97	0.64	0.69	0.79	0.88	0.57	0.61	0.71	0.80	0.39	0.44	0.52	0.61	
		PI	1.80	1.80	1.80	1.80	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.83	1.83	1.83	1.83	
	52	TC	3.81	3.81	3.84	3.86	3.95	3.95	3.95	3.98	4.06	4.06	4.06	4.06	4.43	4.43	4.43	4.43	
		S/T	0.75	0.80	0.91	1.00	0.66	0.71	0.82	0.92	0.58	0.63	0.73	0.84	0.39	0.44	0.53	0.63	
		PI	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.05	2.05	2.05	2.05	2.07	2.07	2.07	2.07	
	805	18	TC	5.85	5.85	5.85	5.91	6.03	6.03	6.03	6.03	6.20	6.20	6.20	6.20	6.66	6.66	6.66	6.66
			S/T	0.71	0.75	0.85	0.93	0.63	0.68	0.77	0.86	0.56	0.60	0.69	0.78	0.40	0.44	0.52	0.60
			PI	1.09	1.09	1.09	1.09	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.07	1.07	1.07	1.07
25		TC	5.48	5.48	5.48	5.54	5.65	5.65	5.65	5.65	5.82	5.82	5.82	5.82	6.26	6.26	6.26	6.26	
		S/T	0.72	0.77	0.87	0.96	0.64	0.69	0.79	0.88	0.57	0.61	0.71	0.80	0.39	0.44	0.52	0.61	
		PI	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	
30		TC	5.22	5.22	5.28	5.34	5.39	5.39	5.39	5.45	5.57	5.57	5.57	5.57	6.00	6.00	6.00	6.00	
		S/T	0.73	0.78	0.88	0.98	0.65	0.70	0.80	0.90	0.57	0.62	0.72	0.81	0.39	0.44	0.53	0.62	
		PI	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.38	1.38	1.38	1.38	
35		TC	4.96	4.96	5.02	5.08	5.14	5.14	5.14	5.19	5.28	5.28	5.37	5.28	5.71	5.71	5.71	5.71	
		S/T	0.75	0.80	0.90	1.00	0.66	0.71	0.82	0.92	0.58	0.63	0.73	0.83	0.39	0.44	0.53	0.63	
		PI	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	
40		TC	4.66	4.66	4.72	4.78	4.82	4.82	4.82	4.88	4.96	4.96	5.01	4.99	5.38	5.38	5.38	5.38	
		S/T	0.77	0.83	0.94	1.00	0.68	0.74	0.85	0.96	0.59	0.65	0.76	0.87	0.39	0.44	0.55	0.65	
		PI	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.66	1.66	1.66	1.66	1.66	1.67	1.67	1.67	1.67	
46		TC	4.32	4.32	4.38	4.43	4.46	4.46	4.46	4.52	4.61	4.61	4.61	4.66	5.01	5.01	5.01	5.01	
		S/T	0.78	0.85	0.97	1.00	0.69	0.75	0.87	0.98	0.60	0.66	0.77	0.88	0.39	0.44	0.55	0.66	
		PI	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.85	1.85	1.85	1.85	1.86	1.86	1.86	1.86	
52		TC	3.92	3.95	3.98	4.00	4.06	4.06	4.09	4.12	4.18	4.18	4.18	4.21	4.55	4.55	4.55	4.55	
		S/T	0.82	0.88	1.00	1.00	0.71	0.78	0.91	1.00	0.61	0.68	0.81	0.93	0.39	0.45	0.57	0.91	
		PI	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.09	2.09	2.09	2.09	2.11	2.11	2.11	2.11	
970		18	TC	5.97	5.97	6.03	6.08	6.14	6.14	6.14	6.20	6.34	6.34	6.34	6.34	6.80	6.80	6.80	6.80
			S/T	0.75	0.80	0.91	1.00	0.66	0.71	0.82	0.92	0.58	0.63	0.73	0.84	0.39	0.44	0.54	0.63
			PI	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
	25	TC	5.60	5.60	5.65	5.71	5.77	5.77	5.77	5.82	5.94	5.94	5.94	5.94	6.40	6.40	6.40	6.40	
		S/T	0.76	0.82	0.93	1.00	0.67	0.73	0.84	0.95	0.59	0.64	0.75	0.86	0.39	0.44	0.54	0.64	
		PI	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	
	30	TC	5.34	5.34	5.39	5.45	5.51	5.51	5.51	5.57	5.68	5.68	5.68	5.68	6.11	6.11	6.11	6.11	
		S/T	0.78	0.84	0.96	1.00	0.68	0.74	0.86	0.97	0.59	0.65	0.77	0.88	0.39	0.44	0.55	0.66	
		PI	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.41	1.41	1.41	1.41	
	35	TC	5.08	5.08	5.14	5.19	5.22	5.22	5.22	5.28	5.39	5.39	5.48	5.54	5.82	5.82	5.82	5.82	
		S/T	0.79	0.86	0.98	1.00	0.70	0.76	0.88	1.00	0.60	0.66	0.78	0.89	0.39	0.45	0.56	0.67	
		PI	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.53	1.54	1.54	1.54	1.54	1.55	1.55	1.55	1.55	
	40	TC	4.76	4.79	4.85	4.90	4.92	4.92	4.92	4.95	5.00	5.00	5.08	5.13	5.18	5.48	5.48	5.48	
		S/T	0.83	0.89	1.00	1.00	0.72	0.79	0.92	1.00	0.62	0.69	0.82	0.94	0.39	0.45	0.57	0.90	
		PI	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.70	1.70	1.70	1.70	1.71	1.71	1.71	1.71	
	46	TC	4.41	4.46	4.52	4.58	4.58	4.58	4.63	4.69	4.72	4.72	4.72	4.87	5.09	5.09	5.09	5.09	
		S/T	0.84	0.91	1.00	1.00	0.73	0.80	0.94	1.00	0.63	0.70	0.83	0.96	0.39	0.45	0.58	0.92	
		PI	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.89	1.89	1.89	1.77	1.90	1.90	1.90	1.90	
	52	TC	4.00	4.03	4.06	4.09	4.15	4.15	4.18	4.21	4.29	4.29	4.29	4.35	4.63	4.63	4.63	4.63	
		S/T	0.88	0.96	1.00	1.00	0.76	0.84	0.99	1.00	0.65	0.72	0.87	1.00	0.39	0.46	0.60	0.97	
		PI	2.12	2.12	2.12	2.12	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.14	2.14	2.14	2.14	

TC:Total Cooling Capacity (kW) S/T:Sensible Cooling Capacity Ratio PI:Power Input(kW)
 Note: The table shows the case where the operation frequency of a compressor is fixed.



Cooling Performance

EDME24FH2 + CSD24FH2

		EDME24 + CSD24																	
INDOOR AIR FLOW (CMH)	OUTDOOR DB (°C)	ID WB (°C) ID DB (°C)	17.0				18.0				19.0				22.0				
			24.0	25.0	27.0	29.0	24.0	25.0	27.0	29.0	24.0	25.0	27.0	29.0	24.0	25.0	27.0	29.0	
880	18	TC	7.77	7.76	7.76	7.76	8.00	7.99	7.99	7.99	8.22	8.22	8.22	8.22	8.82	8.82	8.82	8.82	
		S/T	0.68	0.71	0.79	0.87	0.61	0.65	0.72	0.79	0.55	0.58	0.66	0.73	0.40	0.44	0.50	0.57	
		PI	1.35	1.34	1.34	1.35	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.33	1.33	1.33	1.33	1.33
	25	TC	7.27	7.27	7.27	7.27	7.50	7.50	7.50	7.50	7.73	7.73	7.73	7.73	8.30	8.30	8.30	8.30	
		S/T	0.68	0.73	0.81	0.89	0.62	0.66	0.73	0.81	0.55	0.59	0.67	0.74	0.40	0.44	0.51	0.58	
		PI	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55
	30	TC	6.95	6.95	6.95	7.01	7.15	7.15	7.15	7.15	7.38	7.38	7.38	7.38	7.96	7.96	7.96	7.96	
		S/T	0.69	0.73	0.82	0.90	0.62	0.66	0.75	0.83	0.55	0.59	0.67	0.75	0.40	0.44	0.51	0.58	
		PI	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.71	1.71	1.71	1.71	1.71
	35	TC	6.61	6.61	6.61	6.67	6.81	6.81	6.81	6.81	7.01	7.01	7.01	7.12	7.01	7.56	7.56	7.56	7.56
		S/T	0.70	0.75	0.84	0.92	0.63	0.67	0.76	0.84	0.56	0.60	0.68	0.77	0.40	0.44	0.51	0.59	
		PI	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.87	1.87	1.87	1.87	1.88	1.88	1.88	1.88	1.88
	40	TC	6.18	6.18	6.18	6.24	6.37	6.37	6.37	6.37	6.57	6.57	6.57	6.63	6.57	7.08	7.08	7.08	7.08
		S/T	0.72	0.77	0.87	0.96	0.64	0.69	0.78	0.88	0.57	0.61	0.70	0.80	0.39	0.44	0.52	0.61	
		PI	2.05	2.05	2.05	2.05	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.08	2.08	2.08	2.08	2.08
	46	TC	5.73	5.73	5.73	5.79	5.90	5.90	5.90	5.90	6.10	6.10	6.10	6.10	6.59	6.59	6.59	6.59	
		S/T	0.73	0.78	0.88	0.98	0.65	0.70	0.80	0.89	0.57	0.62	0.72	0.81	0.39	0.44	0.53	0.62	
		PI	2.28	2.28	2.28	2.28	2.29	2.29	2.29	2.29	2.29	2.29	2.29	2.29	2.31	2.31	2.31	2.31	2.31
	52	TC	5.19	5.19	5.25	5.30	5.36	5.36	5.36	5.42	5.53	5.53	5.53	5.53	6.02	6.02	6.02	6.02	
		S/T	0.76	0.81	0.92	1.00	0.67	0.72	0.83	0.94	0.58	0.64	0.74	0.85	0.39	0.44	0.54	0.63	
		PI	2.57	2.57	2.57	2.57	2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.60	2.60	2.60	2.60	2.60
	1100	18	TC	7.93	7.93	7.93	8.02	8.16	8.16	8.16	8.16	8.39	8.39	8.39	8.39	9.02	9.02	9.02	9.02
			S/T	0.71	0.76	0.85	0.94	0.63	0.68	0.77	0.86	0.56	0.61	0.69	0.78	0.40	0.44	0.52	0.60
			PI	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.36	1.36	1.36
25		TC	7.44	7.44	7.44	7.53	7.64	7.64	7.64	7.73	7.87	7.87	7.87	7.87	8.48	8.48	8.48	8.48	
		S/T	0.72	0.77	0.87	0.97	0.64	0.69	0.79	0.88	0.57	0.62	0.71	0.80	0.39	0.44	0.52	0.61	
		PI	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59
30		TC	7.07	7.07	7.13	7.19	7.30	7.30	7.30	7.39	7.53	7.53	7.53	7.53	8.10	8.10	8.10	8.10	
		S/T	0.74	0.79	0.89	0.99	0.65	0.70	0.80	0.90	0.57	0.62	0.72	0.82	0.39	0.44	0.53	0.62	
		PI	1.74	1.74	1.74	1.74	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75
35		TC	6.73	6.73	6.78	6.84	6.96	6.96	6.96	7.01	7.16	7.16	7.27	7.16	7.73	7.73	7.73	7.73	
		S/T	0.75	0.80	0.91	1.00	0.66	0.71	0.82	0.92	0.58	0.63	0.73	0.84	0.39	0.44	0.53	0.63	
		PI	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91
40		TC	6.36	6.36	6.41	6.47	6.56	6.56	6.56	6.62	6.76	6.76	6.82	6.79	7.31	7.31	7.31	7.31	
		S/T	0.77	0.84	0.95	1.00	0.68	0.74	0.86	0.97	0.59	0.65	0.76	0.88	0.39	0.44	0.55	0.65	
		PI	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11
46		TC	5.90	5.90	5.96	6.02	6.07	6.07	6.07	6.13	6.28	6.28	6.28	6.33	6.79	6.79	6.79	6.79	
		S/T	0.79	0.85	0.97	1.00	0.69	0.75	0.87	0.99	0.60	0.66	0.78	0.89	0.39	0.44	0.55	0.66	
		PI	2.33	2.33	2.33	2.33	2.34	2.34	2.34	2.34	2.34	2.34	2.34	2.34	2.36	2.36	2.36	2.36	2.36
52		TC	5.33	5.38	5.44	5.50	5.53	5.53	5.58	5.64	5.70	5.70	5.70	5.76	6.19	6.19	6.19	6.19	
		S/T	0.82	0.89	1.00	1.00	0.72	0.78	0.91	1.00	0.62	0.68	0.81	0.94	0.39	0.45	0.57	0.91	
		PI	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.64	2.64	2.64	2.64	2.66	2.66	2.66	2.66	2.66
1365		18	TC	8.08	8.08	8.16	8.25	8.33	8.33	8.33	8.42	8.56	8.56	8.56	8.56	9.20	9.20	9.20	9.20
			S/T	0.76	0.81	0.92	1.00	0.67	0.72	0.83	0.94	0.58	0.64	0.75	0.85	0.39	0.44	0.54	0.64
			PI	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.39	1.39	1.39	1.39	1.38	1.38	1.38	1.38
	25	TC	7.59	7.59	7.67	7.76	7.82	7.82	7.82	7.90	8.05	8.05	8.05	8.05	8.65	8.65	8.65	8.65	
		S/T	0.78	0.84	0.95	1.00	0.68	0.74	0.86	0.97	0.59	0.65	0.76	0.88	0.39	0.44	0.55	0.66	
		PI	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62
	30	TC	7.21	7.21	7.30	7.39	7.44	7.44	7.44	7.53	7.67	7.67	7.67	7.76	8.28	8.28	8.28	8.28	
		S/T	0.79	0.85	0.98	1.00	0.69	0.76	0.88	1.00	0.60	0.66	0.78	0.90	0.39	0.45	0.56	0.67	
		PI	1.77	1.77	1.77	1.77	1.77	1.77	1.77	1.77	1.77	1.77	1.77	1.77	1.78	1.78	1.78	1.78	1.78
	35	TC	6.87	6.87	6.93	6.98	7.07	7.07	7.13	7.19	7.30	7.30	7.42	7.50	7.87	7.87	7.87	7.87	
		S/T	0.81	0.87	1.00	1.00	0.71	0.77	0.90	1.00	0.61	0.67	0.79	0.91	0.39	0.45	0.56	0.68	
		PI	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.95	1.95	1.95	1.95	1.96	1.96	1.96	1.96	1.96
	40	TC	6.49	6.51	6.57	6.63	6.68	6.68	6.73	6.79	6.89	6.89	6.96	7.03	7.46	7.46	7.46	7.46	
		S/T	0.84	0.91	1.00	1.00	0.73	0.80	0.94	1.00	0.63	0.70	0.83	0.97	0.39	0.45	0.58	0.90	
		PI	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.15	2.15	2.15	2.15	2.16	2.16	2.16	2.16	2.16
	46	TC	6.02	6.07	6.13	6.19	6.19	6.19	6.25	6.30	6.39	6.39	6.39	6.57	6.94	6.94	6.94	6.94	
		S/T	0.86	0.93	1.00	1.00	0.74	0.82	0.96	1.00	0.64	0.71	0.85	0.99	0.39	0.46	0.59	0.92	
		PI	2.38	2.38	2.38	2.38	2.39	2.39	2.39	2.39	2.39	2.39	2.39	2.41	2.41	2.41	2.41	2.41	2.41
	52	TC	5.44	5.50	5.56	5.61	5.64	5.64	5.70	5.76	5.81	5.81	5.87	5.93	6.30	6.30	6.30	6.30	
		S/T	0.90	0.98	1.00	1.00	0.78	0.86	1.00	1.00	0.66	0.74	0.89	1.00	0.39	0.46	0.61	0.97	
		PI	2.68	2.68	2.68	2.68	2.69	2.69	2.69	2.69	2.69	2.69	2.69	2.69	2.72	2.72	2.72	2.72	2.72

TC: Total Cooling Capacity (kW) S/T: Sensible Cooling Capacity Ratio PI: Power Input (kW)
 Note: The table shows the case where the operation frequency of a compressor is fixed.



Cooling Performance

ESME36FH2 + CSD36FH2

		ESME36 + CSD36																	
INDOOR AIR FLOW (CMH)	OUTDOOR DB (°C)	ID WB(°C) ID DB (°C)	17.0				18.0				19.0			22.0					
			24.0	25.0	27.0	29.0	24.0	25.0	27.0	29.0	24.0	25.0	27.0	29.0	24.0	25.0	27.0	29.0	
1360	18	TC	10.68	10.68	10.68	10.80	10.99	11.00	11.00	11.00	11.32	11.32	11.32	11.32	12.15	12.15	12.15	12.15	
		S/T	0.69	0.74	0.82	0.90	0.62	0.66	0.75	0.83	0.55	0.60	0.68	0.76	0.40	0.44	0.51	0.59	
		PI	1.94	1.94	1.94	1.94	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.91	1.91	1.91	1.91	
	25	TC	9.99	9.99	9.99	10.08	10.31	10.31	10.31	10.31	10.63	10.63	10.63	10.63	11.43	11.43	11.43	11.43	
		S/T	0.71	0.75	0.84	0.93	0.63	0.68	0.76	0.85	0.56	0.60	0.69	0.77	0.40	0.44	0.52	0.60	
		PI	2.23	2.23	2.23	2.23	2.23	2.23	2.23	2.23	2.23	2.23	2.23	2.23	2.23	2.23	2.23	2.23	
	30	TC	9.53	9.53	9.53	9.62	9.82	9.82	9.82	9.82	10.14	10.14	10.14	10.14	10.91	10.91	10.91	10.91	
		S/T	0.72	0.76	0.86	0.95	0.64	0.68	0.78	0.87	0.56	0.61	0.70	0.79	0.40	0.44	0.52	0.60	
		PI	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.46	2.46	2.46	2.46	2.47	2.47	2.47	2.47	
	35	TC	9.08	9.08	9.08	9.16	9.36	9.36	9.36	9.36	9.45	9.65	9.65	9.65	10.40	10.40	10.40	10.40	
		S/T	0.73	0.78	0.88	0.97	0.65	0.69	0.79	0.89	0.57	0.62	0.71	0.81	0.39	0.44	0.52	0.61	
		PI	2.69	2.69	2.69	2.69	2.69	2.69	2.69	2.69	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	
	40	TC	8.47	8.47	8.51	8.59	8.74	8.74	8.74	8.83	9.01	9.01	9.09	9.01	9.73	9.73	9.73	9.73	
		S/T	0.75	0.81	0.91	1.00	0.66	0.72	0.82	0.93	0.58	0.63	0.74	0.84	0.39	0.44	0.54	0.63	
		PI	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.98	2.98	2.98	2.98	3.00	3.00	3.00	3.00	
	46	TC	7.85	7.85	7.93	8.02	8.10	8.10	8.10	8.19	8.36	8.36	8.36	8.36	9.04	9.04	9.04	9.04	
		S/T	0.76	0.82	0.93	1.00	0.67	0.73	0.84	0.95	0.59	0.64	0.75	0.86	0.39	0.44	0.54	0.64	
		PI	3.30	3.30	3.30	3.30	3.31	3.31	3.31	3.31	3.32	3.32	3.32	3.32	3.34	3.34	3.34	3.34	
	52	TC	7.11	7.11	7.19	7.28	7.34	7.34	7.34	7.42	7.59	7.59	7.59	7.68	8.25	8.25	8.25	8.25	
		S/T	0.79	0.85	0.98	1.00	0.69	0.76	0.88	1.00	0.60	0.66	0.78	0.89	0.39	0.45	0.55	0.66	
		PI	3.72	3.72	3.72	3.72	3.73	3.73	3.73	3.73	3.74	3.74	3.74	3.74	3.77	3.77	3.77	3.77	
	1880	18	TC	10.89	10.89	11.00	11.12	11.23	11.23	11.23	11.35	11.55	11.55	11.55	11.55	12.38	12.38	12.38	12.38
			S/T	0.76	0.82	0.93	1.00	0.67	0.73	0.84	0.95	0.59	0.64	0.75	0.86	0.39	0.44	0.54	0.65
			PI	1.98	1.98	1.98	1.98	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.95	1.95	1.95	1.95
		25	TC	10.23	10.23	10.34	10.46	10.52	10.52	10.52	10.63	10.83	10.83	10.83	10.95	11.66	11.66	11.66	11.66
			S/T	0.78	0.84	0.96	1.00	0.69	0.75	0.87	0.98	0.60	0.66	0.77	0.88	0.39	0.44	0.55	0.66
			PI	2.29	2.29	2.29	2.29	2.29	2.29	2.29	2.29	2.29	2.29	2.29	2.29	2.29	2.29	2.29	2.29
		30	TC	9.74	9.74	9.83	9.91	10.06	10.06	10.17	10.29	10.34	10.34	10.34	10.46	11.15	11.15	11.15	11.15
			S/T	0.80	0.86	0.99	1.00	0.70	0.76	0.88	1.00	0.61	0.67	0.79	0.91	0.39	0.45	0.56	0.67
			PI	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.51	2.51	2.51	2.51	2.52	2.52	2.52	2.52
35		TC	9.25	9.25	9.34	9.42	9.54	9.54	9.62	9.71	9.85	9.85	10.00	10.08	10.63	10.63	10.63	10.63	
		S/T	0.82	0.88	1.00	1.00	0.71	0.78	0.91	1.00	0.61	0.68	0.80	0.92	0.39	0.45	0.57	0.69	
		PI	2.74	2.74	2.74	2.74	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	
40		TC	8.63	8.67	8.76	8.84	8.92	8.92	9.00	9.09	9.21	9.21	9.28	9.37	9.95	9.95	9.95	9.95	
		S/T	0.85	0.92	1.00	1.00	0.74	0.81	0.95	1.00	0.63	0.70	0.84	0.98	0.39	0.46	0.59	0.72	
		PI	3.02	3.02	3.02	3.02	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.04	3.04	3.04	3.04	
46		TC	8.00	8.08	8.17	8.25	8.28	8.28	8.37	8.45	8.54	8.54	8.54	8.62	9.25	9.25	9.25	9.25	
		S/T	0.87	0.94	1.00	1.00	0.75	0.83	0.97	1.00	0.64	0.71	0.86	1.00	0.39	0.46	0.59	0.73	
		PI	3.36	3.36	3.36	3.36	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.40	3.40	3.40	3.40	
52		TC	7.26	7.34	7.43	7.51	7.51	7.51	7.60	7.68	7.77	7.77	7.86	7.94	8.43	8.43	8.43	8.43	
		S/T	0.91	0.99	1.00	1.00	0.78	0.87	1.00	1.00	0.66	0.74	0.90	1.00	0.39	0.47	0.61	0.91	
		PI	3.79	3.79	3.79	3.79	3.79	3.79	3.79	3.79	3.79	3.80	3.80	3.80	3.83	3.83	3.83	3.83	
2250		18	TC	11.12	11.12	11.23	11.35	11.43	11.43	11.55	11.66	11.78	11.78	11.78	11.89	12.64	12.64	12.64	12.64
			S/T	0.81	0.88	1.00	1.00	0.71	0.78	0.91	1.00	0.61	0.68	0.81	0.93	0.39	0.45	0.57	0.69
			PI	2.02	2.02	2.02	2.02	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	1.99	1.99	1.99	1.99
		25	TC	10.43	10.54	10.66	10.77	10.75	10.75	10.86	10.98	11.06	11.06	11.06	11.18	11.89	11.89	11.89	11.89
			S/T	0.84	0.90	1.00	1.00	0.73	0.80	0.93	1.00	0.63	0.69	0.83	0.96	0.39	0.45	0.58	0.71
			PI	2.33	2.33	2.33	2.33	2.33	2.33	2.33	2.33	2.33	2.33	2.33	2.33	2.33	2.33	2.33	2.33
		30	TC	9.94	10.03	10.11	10.23	10.26	10.26	10.37	10.49	10.54	10.54	10.66	11.38	11.38	11.38	11.38	
			S/T	0.86	0.93	1.00	1.00	0.74	0.82	0.96	1.00	0.64	0.71	0.85	0.99	0.39	0.46	0.59	0.72
			PI	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.56	2.56	2.56	2.56	2.57	2.57	2.57	2.57
	35	TC	9.45	9.54	9.62	9.71	9.74	9.74	9.83	9.91	10.06	10.06	10.20	10.31	10.83	10.83	10.83	10.83	
		S/T	0.88	0.95	1.00	1.00	0.76	0.84	0.99	1.00	0.65	0.72	0.87	1.00	0.39	0.46	0.60	0.74	
		PI	2.79	2.79	2.79	2.79	2.80	2.80	2.80	2.80	2.81	2.81	2.81	2.81	2.82	2.82	2.82	2.82	
	40	TC	8.82	8.91	8.99	9.08	9.09	9.13	9.22	9.30	9.39	9.39	9.51	9.61	10.14	10.14	10.14	10.14	
		S/T	0.92	1.00	1.00	1.00	0.79	0.88	1.00	1.00	0.67	0.75	0.91	1.00	0.39	0.47	0.62	0.90	
		PI	3.07	3.07	3.07	3.07	3.08	3.08	3.08	3.08	3.09	3.09	3.09	3.09	3.11	3.11	3.11	3.11	
	46	TC	8.17	8.25	8.34	8.43	8.43	8.51	8.60	8.68	8.71	8.71	8.80	9.20	9.42	9.42	9.42	9.42	
		S/T	0.94	1.00	1.00	1.00	0.81	0.89	1.00	1.00	0.68	0.77	0.93	1.00	0.39	0.47	0.63	0.92	
		PI	3.42	3.42	3.42	3.42	3.43	3.43	3.43	3.43	3.44	3.44	3.44	3.47	3.47	3.47	3.47	3.47	
	52	TC	7.40	7.49	7.57	7.66	7.66	7.74	7.83	7.91	7.91	7.91	8.00	8.08	8.60	8.60	8.60	8.60	
		S/T	0.99	1.00	1.00	1.00	0.85	0.94	1.00	1.00	0.71	0.80	0.99	1.00	0.39	0.48	0.66	0.97	
		PI	3.86	3.86	3.86	3.86	3.87	3.87	3.87	3.87	3.88	3.88	3.88	3.88	3.91	3.91	3.91	3.91	

TC:Total Cooling Capacity (kW) S/T:Sensible Cooling Capacity Ratio PI:Power Input(kW)
 Note: The table shows the case where the operation frequency of a compressor is fixed.



Cooling Performance

ESME48FH2 + CSD48FH2

		ESME48FH + CSD48FH																	
INDOOR AIR FLOW (CMH)	OUTDOOR DB (°C)	ID WB(°C) ID DB (°C)	17.0				18.0				19.0				22.0				
			24.0	25.0	27.0	29.0	24.0	25.0	27.0	29.0	24.0	25.0	27.0	29.0	24.0	25.0	27.0	29.0	
1450	18	TC	14.71	14.72	14.72	14.72	15.14	15.15	15.15	15.15	15.58	15.58	15.58	15.58	16.73	16.73	16.73	16.73	
		S/T	0.66	0.69	0.76	0.82	0.60	0.63	0.70	0.76	0.54	0.58	0.64	0.70	0.41	0.44	0.50	0.56	
		PI	2.76	2.76	2.76	2.76	2.75	2.75	2.75	2.75	2.74	2.74	2.74	2.74	2.72	2.72	2.72	2.72	
	25	TC	13.77	13.77	13.77	13.77	14.21	14.21	14.21	14.21	14.64	14.64	14.64	14.64	15.73	15.73	15.73	15.73	
		S/T	0.67	0.70	0.77	0.84	0.60	0.64	0.71	0.78	0.55	0.58	0.64	0.71	0.41	0.44	0.50	0.56	
		PI	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	
	30	TC	13.14	13.14	13.14	13.14	13.55	13.55	13.55	13.55	13.95	13.95	13.95	13.95	15.04	15.04	15.04	15.04	
		S/T	0.67	0.71	0.78	0.86	0.61	0.64	0.72	0.79	0.55	0.58	0.65	0.72	0.41	0.44	0.50	0.57	
		PI	3.49	3.49	3.49	3.49	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.52	3.52	3.52	3.52	
	35	TC	12.48	12.48	12.48	12.48	12.89	12.89	12.89	12.89	13.29	13.29	13.29	13.29	14.32	14.32	14.32	14.32	
		S/T	0.68	0.72	0.80	0.87	0.61	0.65	0.73	0.80	0.55	0.59	0.66	0.73	0.40	0.44	0.50	0.57	
		PI	3.82	3.82	3.82	3.82	3.83	3.83	3.83	3.83	3.83	3.83	3.84	3.83	3.86	3.86	3.86	3.86	
	40	TC	11.64	11.64	11.64	11.69	12.01	12.01	12.01	12.01	12.40	12.40	12.40	12.40	13.40	13.40	13.40	13.40	
		S/T	0.69	0.74	0.82	0.90	0.62	0.66	0.75	0.83	0.55	0.59	0.67	0.75	0.40	0.44	0.51	0.58	
		PI	4.22	4.22	4.22	4.22	4.23	4.23	4.23	4.23	4.23	4.23	4.24	4.23	4.26	4.26	4.26	4.26	
	46	TC	10.79	10.79	10.79	10.90	11.13	11.13	11.13	11.13	11.50	11.50	11.50	11.50	12.47	12.47	12.47	12.47	
		S/T	0.70	0.75	0.83	0.92	0.63	0.67	0.76	0.84	0.56	0.60	0.68	0.77	0.40	0.44	0.51	0.59	
		PI	4.69	4.69	4.69	4.69	4.70	4.70	4.70	4.70	4.71	4.71	4.71	4.71	4.75	4.75	4.75	4.75	
	52	TC	9.77	9.77	9.77	9.85	10.11	10.11	10.11	10.11	10.45	10.45	10.45	10.45	11.36	11.36	11.36	11.36	
		S/T	0.72	0.77	0.87	0.96	0.64	0.69	0.78	0.88	0.57	0.61	0.70	0.80	0.39	0.44	0.52	0.61	
		PI	5.29	5.29	5.29	5.29	5.30	5.30	5.30	5.30	5.32	5.32	5.32	5.32	5.36	5.36	5.36	5.36	
	2050	18	TC	15.02	15.02	15.02	15.16	15.47	15.47	15.47	15.47	15.91	15.91	15.91	15.91	17.08	17.08	17.08	17.08
			S/T	0.71	0.75	0.84	0.93	0.63	0.68	0.76	0.85	0.56	0.60	0.69	0.78	0.40	0.44	0.52	0.60
			PI	2.82	2.82	2.82	2.82	2.81	2.81	2.81	2.81	2.80	2.80	2.80	2.80	2.78	2.78	2.78	2.78
25		TC	14.07	14.07	14.07	14.21	14.50	14.50	14.50	14.50	14.93	14.93	14.93	14.93	16.08	16.08	16.08	16.08	
		S/T	0.72	0.77	0.87	0.96	0.64	0.69	0.78	0.88	0.57	0.61	0.70	0.80	0.39	0.44	0.52	0.61	
		PI	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	
30		TC	13.44	13.44	13.44	13.58	13.84	13.84	13.84	13.98	14.27	14.27	14.27	14.27	15.36	15.36	15.36	15.36	
		S/T	0.73	0.78	0.88	0.98	0.65	0.70	0.80	0.89	0.57	0.62	0.72	0.81	0.39	0.44	0.53	0.62	
		PI	3.57	3.57	3.57	3.57	3.57	3.57	3.57	3.57	3.57	3.57	3.57	3.57	3.59	3.59	3.59	3.59	
35		TC	12.75	12.75	12.86	12.98	13.15	13.15	13.15	13.29	13.58	13.58	13.78	13.58	14.64	14.64	14.64	14.64	
		S/T	0.74	0.80	0.90	1.00	0.66	0.71	0.82	0.92	0.58	0.63	0.73	0.83	0.39	0.44	0.53	0.63	
		PI	3.90	3.90	3.90	3.90	3.91	3.91	3.91	3.91	3.91	3.91	3.92	3.91	3.91	3.91	3.91	3.91	
40		TC	12.04	12.04	12.15	12.27	12.43	12.43	12.43	12.56	12.83	12.83	12.94	12.88	13.86	13.86	13.86	13.86	
		S/T	0.77	0.83	0.94	1.00	0.68	0.73	0.85	0.96	0.59	0.65	0.76	0.87	0.39	0.44	0.54	0.65	
		PI	4.31	4.31	4.31	4.31	4.32	4.32	4.32	4.32	4.32	4.32	4.33	4.32	4.34	4.34	4.34	4.34	
46		TC	11.16	11.16	11.27	11.39	11.53	11.53	11.53	11.65	11.91	11.91	11.91	12.02	12.88	12.88	12.88	12.88	
		S/T	0.78	0.84	0.96	1.00	0.69	0.75	0.87	0.98	0.60	0.65	0.77	0.88	0.39	0.44	0.55	0.66	
		PI	4.79	4.79	4.79	4.79	4.80	4.80	4.80	4.80	4.81	4.81	4.81	4.81	4.85	4.85	4.85	4.85	
52		TC	10.12	10.12	10.24	10.35	10.47	10.47	10.58	10.70	10.81	10.81	10.81	10.93	11.73	11.73	11.73	11.73	
		S/T	0.81	0.88	1.00	1.00	0.71	0.78	0.90	1.00	0.61	0.68	0.80	0.93	0.39	0.45	0.57	0.91	
		PI	5.40	5.40	5.40	5.40	5.41	5.41	5.41	5.41	5.43	5.43	5.43	5.43	5.47	5.47	5.47	5.47	
2630		18	TC	15.33	15.33	15.47	15.62	15.79	15.79	15.79	15.96	16.25	16.25	16.25	16.25	17.46	17.46	17.46	17.46
			S/T	0.76	0.82	0.93	1.00	0.67	0.73	0.84	0.95	0.59	0.64	0.75	0.86	0.39	0.44	0.54	0.64
			PI	2.88	2.88	2.88	2.88	2.87	2.87	2.87	2.87	2.86	2.86	2.86	2.86	2.84	2.84	2.84	2.84
	25	TC	14.38	14.38	14.53	14.67	14.81	14.81	14.81	14.96	15.25	15.25	15.25	15.39	16.42	16.42	16.42	16.42	
		S/T	0.78	0.84	0.96	1.00	0.69	0.75	0.86	0.98	0.60	0.65	0.77	0.88	0.39	0.44	0.55	0.66	
		PI	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	
	30	TC	13.69	13.69	13.84	13.98	14.13	14.13	14.13	14.27	14.56	14.56	14.56	14.70	15.68	15.68	15.68	15.68	
		S/T	0.80	0.86	0.98	1.00	0.70	0.76	0.88	1.00	0.60	0.66	0.79	0.90	0.39	0.45	0.56	0.67	
		PI	3.64	3.64	3.64	3.64	3.64	3.64	3.64	3.64	3.65	3.65	3.65	3.65	3.66	3.66	3.66	3.66	
	35	TC	13.03	13.03	13.18	13.32	13.44	13.44	13.58	13.72	13.87	13.87	14.07	14.21	14.96	14.96	14.96	14.96	
		S/T	0.81	0.88	1.00	1.00	0.71	0.78	0.90	1.00	0.61	0.68	0.80	0.92	0.39	0.45	0.57	0.69	
		PI	3.98	3.98	3.98	3.98	3.99	3.99	3.99	3.99	3.99	3.99	4.00	3.99	4.02	4.02	4.02	4.02	
	40	TC	12.30	12.35	12.48	12.61	12.69	12.69	12.82	12.95	13.09	13.09	13.20	13.33	14.15	14.15	14.15	14.15	
		S/T	0.85	0.92	1.00	1.00	0.74	0.81	0.95	1.00	0.63	0.70	0.84	0.98	0.39	0.45	0.58	0.90	
		PI	4.39	4.39	4.39	4.39	4.40	4.40	4.40	4.40	4.41	4.41	4.41	4.41	4.44	4.44	4.44	4.44	
	46	TC	11.39	11.50	11.62	11.73	11.76	11.76	11.88	11.99	12.14	12.14	12.14	12.14	13.19	13.14	13.14	13.14	
		S/T	0.86	0.94	1.00	1.00	0.75	0.82	0.97	1.00	0.64	0.71	0.86	1.00	0.39	0.46	0.59	0.92	
		PI	4.88	4.88	4.88	4.88	4.89	4.89	4.89	4.89	4.91	4.91	4.91	4.91	5.17	4.95	4.95	4.95	
	52	TC	10.32	10.44	10.55	10.67	10.67	10.67	10.78	10.90	11.04	11.04	11.16	11.27	11.99	11.99	11.99	11.99	
		S/T	0.91	0.99	1.00	1.00	0.78	0.86	1.00	1.00	0.66	0.74	0.90	1.00	0.39	0.47	0.61	0.97	
		PI	5.51	5.51	5.51	5.51	5.52	5.52	5.52	5.52	5.52	5.54	5.54	5.54	5.54	5.58	5.58	5.58	

TC: Total Cooling Capacity (kW) S/T: Sensible Cooling Capacity Ratio PI: Power Input (kW)
 Note: The table shows the case where the operation frequency of a compressor is fixed.



Cooling Performance

ESME60FH2 + CSD60FH2

ESME60FH + CSD60FH																			
INDOOR AIR FLOW (CMH)	OUTDOOR DB (°C)	ID WB (°C) ID DB (°C)	17.0				18.0				19.0				22.0				
			24.0	25.0	27.0	29.0	24.0	25.0	27.0	29.0	24.0	25.0	27.0	29.0	24.0	25.0	27.0	29.0	
1900	18	TC	16.60	16.60	16.60	16.60	17.08	17.08	17.08	17.08	17.57	17.57	17.57	17.57	18.86	18.86	18.86	18.86	
		S/T	0.68	0.71	0.79	0.87	0.61	0.65	0.72	0.80	0.55	0.58	0.66	0.73	0.40	0.44	0.50	0.57	
		PI	3.04	3.04	3.04	3.04	3.03	3.03	3.03	3.03	3.02	3.02	3.02	3.02	3.00	3.00	3.00	3.00	
	25	TC	15.56	15.56	15.56	15.71	16.02	16.02	16.02	16.02	16.51	16.51	16.51	16.51	17.74	17.74	17.74	17.74	
		S/T	0.69	0.73	0.81	0.89	0.62	0.66	0.74	0.82	0.55	0.59	0.67	0.74	0.40	0.44	0.51	0.58	
		PI	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	
	30	TC	14.82	14.82	14.82	14.96	15.27	15.27	15.27	15.27	15.76	15.76	15.76	15.76	16.97	16.97	16.97	16.97	
		S/T	0.69	0.74	0.82	0.91	0.62	0.66	0.75	0.83	0.56	0.60	0.68	0.76	0.40	0.44	0.51	0.59	
		PI	3.84	3.84	3.84	3.84	3.84	3.84	3.84	3.84	3.85	3.85	3.85	3.85	3.86	3.86	3.86	3.86	
	35	TC	14.10	14.10	14.10	14.24	14.53	14.53	14.53	14.53	14.99	14.99	15.22	14.99	16.17	16.17	16.17	16.17	
		S/T	0.70	0.75	0.84	0.93	0.63	0.67	0.76	0.85	0.56	0.60	0.68	0.77	0.40	0.44	0.51	0.59	
		PI	4.20	4.20	4.20	4.20	4.21	4.21	4.21	4.21	4.21	4.21	4.22	4.21	4.24	4.24	4.24	4.24	
	40	TC	13.15	13.15	13.20	13.33	13.57	13.57	13.57	13.63	14.00	14.00	14.13	14.00	15.13	15.13	15.13	15.13	
		S/T	0.72	0.77	0.87	0.97	0.64	0.69	0.79	0.88	0.57	0.61	0.71	0.80	0.39	0.44	0.52	0.61	
		PI	4.63	4.63	4.63	4.63	4.65	4.65	4.65	4.65	4.65	4.65	4.66	4.65	4.69	4.69	4.69	4.69	
	46	TC	12.17	12.17	12.28	12.40	12.60	12.60	12.60	12.71	13.00	13.00	13.00	13.00	14.08	14.08	14.08	14.08	
		S/T	0.73	0.79	0.89	0.98	0.65	0.70	0.80	0.90	0.57	0.62	0.72	0.82	0.39	0.44	0.53	0.62	
		PI	5.15	5.15	5.15	5.15	5.17	5.17	5.17	5.17	5.18	5.18	5.18	5.18	5.22	5.22	5.22	5.22	
	52	TC	11.03	11.03	11.15	11.26	11.43	11.43	11.43	11.55	11.80	11.80	11.80	11.80	12.83	12.83	12.83	12.83	
		S/T	0.76	0.82	0.93	1.00	0.67	0.72	0.83	0.94	0.58	0.64	0.75	0.85	0.39	0.44	0.54	0.64	
		PI	5.82	5.82	5.82	5.82	5.83	5.83	5.83	5.83	5.85	5.85	5.85	5.85	5.89	5.89	5.89	5.89	
	2450	18	TC	16.95	16.95	16.95	17.12	17.44	17.44	17.44	17.44	17.95	17.95	17.95	17.95	19.27	19.27	19.27	19.27
			S/T	0.72	0.77	0.86	0.96	0.64	0.69	0.78	0.88	0.57	0.61	0.70	0.79	0.39	0.44	0.52	0.61
			PI	3.11	3.11	3.11	3.11	3.10	3.10	3.10	3.10	3.09	3.09	3.09	3.09	3.07	3.07	3.07	3.07
25		TC	15.88	15.88	16.06	16.23	16.37	16.37	16.37	16.55	16.86	16.86	16.86	16.86	18.13	18.13	18.13	18.13	
		S/T	0.73	0.78	0.88	0.98	0.65	0.70	0.80	0.90	0.57	0.62	0.72	0.82	0.39	0.44	0.53	0.62	
		PI	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58	
30		TC	15.14	15.14	15.28	15.42	15.60	15.60	15.60	15.74	16.09	16.09	16.09	16.09	17.32	17.32	17.32	17.32	
		S/T	0.75	0.80	0.90	1.00	0.66	0.71	0.82	0.92	0.58	0.63	0.73	0.83	0.39	0.44	0.53	0.63	
		PI	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.93	3.93	3.93	3.93	3.95	3.95	3.95	3.95	
35		TC	14.39	14.39	14.53	14.68	14.85	14.85	14.85	14.99	15.31	15.31	15.54	15.31	16.52	16.52	16.52	16.52	
		S/T	0.76	0.82	0.93	1.00	0.67	0.73	0.84	0.94	0.59	0.64	0.74	0.85	0.39	0.44	0.54	0.64	
		PI	4.29	4.29	4.29	4.29	4.29	4.29	4.29	4.29	4.30	4.30	4.31	4.30	4.30	4.30	4.30	4.30	
40		TC	13.54	13.54	13.67	13.80	13.99	13.99	14.05	14.20	14.42	14.42	14.55	14.49	15.59	15.59	15.59	15.59	
		S/T	0.79	0.85	0.97	1.00	0.69	0.75	0.87	0.99	0.60	0.66	0.78	0.89	0.39	0.44	0.55	0.66	
		PI	4.73	4.73	4.73	4.73	4.74	4.74	4.74	4.74	4.75	4.75	4.76	4.75	4.77	4.77	4.77	4.77	
46		TC	12.54	12.54	12.66	12.77	12.97	12.97	13.12	13.26	13.37	13.37	13.37	13.52	14.49	14.49	14.49	14.49	
		S/T	0.80	0.87	0.99	1.00	0.70	0.76	0.89	1.00	0.61	0.67	0.79	0.91	0.39	0.45	0.56	0.67	
		PI	5.26	5.26	5.26	5.26	5.28	5.28	5.28	5.28	5.29	5.29	5.29	5.29	5.33	5.33	5.33	5.33	
52		TC	11.36	11.48	11.59	11.71	11.77	11.77	11.88	12.00	12.17	12.17	12.17	12.28	13.20	13.20	13.20	13.20	
		S/T	0.84	0.90	1.00	1.00	0.73	0.80	0.93	1.00	0.62	0.69	0.83	0.96	0.39	0.45	0.58	0.91	
		PI	5.94	5.94	5.94	5.94	5.96	5.96	5.96	5.96	5.97	5.97	5.97	5.97	6.02	6.02	6.02	6.02	
3000		18	TC	17.29	17.29	17.46	17.64	17.81	17.81	17.81	17.98	18.30	18.30	18.30	18.30	19.65	19.65	19.65	19.65
			S/T	0.76	0.82	0.93	1.00	0.67	0.73	0.84	0.95	0.59	0.64	0.75	0.86	0.39	0.44	0.54	0.65
			PI	3.17	3.17	3.17	3.17	3.16	3.16	3.16	3.16	3.15	3.15	3.15	3.15	3.13	3.13	3.13	3.13
	25	TC	16.20	16.20	16.37	16.55	16.69	16.69	16.69	16.86	17.21	17.21	17.21	17.38	18.50	18.50	18.50	18.50	
		S/T	0.78	0.85	0.97	1.00	0.69	0.75	0.87	0.99	0.60	0.66	0.77	0.89	0.39	0.44	0.55	0.66	
		PI	3.65	3.65	3.65	3.65	3.65	3.65	3.65	3.65	3.65	3.65	3.65	3.65	3.65	3.65	3.65	3.65	
	30	TC	15.45	15.45	15.60	15.74	15.91	15.91	16.09	16.26	16.40	16.40	16.40	16.57	17.69	17.69	17.69	17.69	
		S/T	0.80	0.86	0.99	1.00	0.70	0.76	0.89	1.00	0.61	0.67	0.79	0.91	0.39	0.45	0.56	0.67	
		PI	4.00	4.00	4.00	4.00	4.01	4.01	4.01	4.01	4.01	4.01	4.01	4.01	4.03	4.03	4.03	4.03	
	35	TC	14.68	14.82	14.97	15.11	15.14	15.14	15.28	15.42	15.63	15.63	15.86	16.03	16.83	16.83	16.83	16.83	
		S/T	0.82	0.88	1.00	1.00	0.71	0.78	0.91	1.00	0.61	0.68	0.80	0.92	0.39	0.45	0.57	0.69	
		PI	4.38	4.38	4.38	4.38	4.38	4.38	4.38	4.38	4.39	4.39	4.40	4.39	4.42	4.42	4.42	4.42	
	40	TC	13.82	13.95	14.09	14.23	14.26	14.26	14.41	14.55	14.73	14.73	14.85	15.01	15.89	15.89	15.89	15.89	
		S/T	0.85	0.92	1.00	1.00	0.74	0.81	0.95	1.00	0.63	0.70	0.85	0.98	0.39	0.46	0.59	0.90	
		PI	4.83	4.83	4.83	4.83	4.84	4.84	4.84	4.84	4.85	4.85	4.85	4.85	4.89	4.89	4.89	4.89	
	46	TC	12.80	12.91	13.06	13.20	13.23	13.23	13.37	13.62	13.66	13.66	13.66	14.10	14.78	14.78	14.78	14.78	
		S/T	0.87	0.94	1.00	1.00	0.75	0.83	0.98	1.00	0.64	0.72	0.86	1.00	0.39	0.46	0.59	0.92	
		PI	5.37	5.37	5.37	5.37	5.39	5.39	5.39	5.39	5.40	5.40	5.40	5.28	5.45	5.45	5.45	5.45	
	52	TC	11.62	11.74	11.85	11.97	12.00	12.00	12.11	12.23	12.40	12.40	12.51	12.63	13.46	13.46	13.46	13.46	
		S/T	0.91	0.99	1.00	1.00	0.79	0.87	1.00	1.00	0.67	0.75	0.90	1.00	0.39	0.47	0.62	0.97	
		PI	6.07	6.07	6.07	6.07	6.08	6.08	6.08	6.08	6.09	6.09	6.09	6.09	6.14	6.14	6.14	6.14	

TC: Total Cooling Capacity (kW) S/T: Sensible Cooling Capacity Ratio PI: Power Input (kW)

Note: The table shows the case where the operation frequency of a compressor is fixed.



Cooling Performance

ESMD48FH2 + CSD48GH2

ESMD48FH2 + CSD48GH2																																																					
INDOOR AIRFLOW (CMH)	OUTDOOR DB(°C)	ID WB (°C)	16.0				18.0				19.0				22.0																																						
			ID DB (°C)	23.0	25.0	27.0	30.0	23.0	25.0	27.0	30.0	23.0	25.0	27.0	30.0	23.0	25.0	27.0	30.0																																		
				1986	27	TC	13.2	13.2	13.3	13.5	13.8	13.8	13.8	14.0	14.2	14.2	14.2	14.2	15.3	15.3	15.3	15.3	S/T	0.70	0.84	0.92	1.00	0.58	0.72	0.80	0.94	0.51	0.64	0.71	0.86	0.34	0.45	0.53	0.66	PI	3.29	3.29	3.29	3.29	3.29	3.29	3.29	3.29	3.29	3.29	3.29	3.29	3.29
30	TC	12.8	12.8	12.9	13.0	13.4	13.4	13.4	13.6	13.8	13.8	13.8	13.8	14.9	14.9	14.9	14.9	14.9	S/T	0.71	0.85	0.93	1.00	0.59	0.72	0.80	0.95	0.51	0.64	0.72	0.87	0.33	0.46	0.53	0.67	PI	3.47	3.47	3.47	3.47	3.48	3.48	3.48	3.48	3.48	3.48	3.48	3.48	3.49	3.49	3.49	3.49	
32	TC	12.6	12.6	12.7	12.8	13.2	13.2	13.2	13.3	13.6	13.6	13.6	13.6	14.6	14.6	14.6	14.6	14.6	S/T	0.71	0.86	0.94	1.00	0.59	0.73	0.81	0.96	0.51	0.65	0.73	0.88	0.33	0.46	0.53	0.67	PI	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.61	3.61	3.61	3.61	3.63	3.63	3.63	3.63	
35	TC	12.2	12.2	12.3	12.4	12.7	12.7	12.7	12.9	13.2	13.2	13.4	13.5	14.2	14.2	14.2	14.2	14.2	S/T	0.72	0.87	0.96	1.00	0.59	0.74	0.82	0.98	0.51	0.65	0.73	0.88	0.33	0.46	0.54	0.68	PI	3.80	3.80	3.80	3.80	3.81	3.81	3.81	3.81	3.81	3.81	3.82	3.81	3.84	3.84	3.84	3.84	
43	TC	11.1	11.1	11.3	11.4	11.6	11.6	11.6	11.7	12.0	12.0	12.0	12.1	12.9	12.9	12.9	12.9	12.9	S/T	0.75	0.90	1.00	1.00	0.61	0.76	0.86	1.00	0.52	0.67	0.76	0.93	0.32	0.46	0.55	0.70	PI	4.43	4.43	4.43	4.43	4.44	4.44	4.44	4.44	4.45	4.45	4.45	4.45	4.49	4.49	4.49	4.49	
46	TC	10.6	10.8	10.9	11.0	11.2	11.2	11.2	11.3	11.5	11.5	11.5	11.6	12.5	12.5	12.5	12.5	12.5	S/T	0.76	0.92	1.00	1.00	0.61	0.78	0.87	1.00	0.52	0.68	0.78	0.95	0.32	0.47	0.55	0.72	PI	4.66	4.66	4.66	4.66	4.68	4.68	4.68	4.68	4.69	4.69	4.69	4.69	4.73	4.73	4.73	4.73	
52	TC	9.6	9.7	9.8	9.9	10.1	10.1	10.2	10.3	10.5	10.5	10.5	10.6	11.4	11.4	11.4	11.4	11.4	S/T	0.79	0.97	1.00	1.00	0.63	0.81	0.91	1.00	0.53	0.71	0.81	1.00	0.31	0.47	0.57	0.75	PI	5.26	5.26	5.26	5.26	5.27	5.27	5.27	5.27	5.29	5.29	5.29	5.29	5.33	5.33	5.33	5.33	
2424	27	TC	13.5	13.6	13.7	13.9	14.1	14.1	14.1	14.2	14.5	14.5	14.5	14.7	15.6	15.6	15.6	15.6	S/T	0.75	0.91	1.00	1.00	0.61	0.77	0.86	1.00	0.52	0.67	0.77	0.93	0.32	0.46	0.55	0.71	PI	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.37	3.37	3.37	3.37	
30	TC	13.1	13.2	13.3	13.5	13.7	13.7	13.7	13.8	14.1	14.1	14.1	14.2	15.2	15.2	15.2	15.2	15.2	S/T	0.75	0.92	1.00	1.00	0.61	0.77	0.87	1.00	0.52	0.68	0.78	0.95	0.32	0.47	0.55	0.72	PI	3.54	3.54	3.54	3.54	3.55	3.55	3.55	3.55	3.55	3.55	3.55	3.55	3.57	3.57	3.57	3.57	
32	TC	12.8	12.9	13.0	13.2	13.4	13.4	13.4	13.6	13.8	13.8	13.8	14.0	14.9	14.9	14.9	14.9	14.9	S/T	0.76	0.93	1.00	1.00	0.62	0.78	0.88	1.00	0.53	0.69	0.78	0.96	0.32	0.47	0.56	0.72	PI	3.67	3.67	3.67	3.67	3.68	3.68	3.68	3.68	3.69	3.69	3.69	3.69	3.71	3.71	3.71	3.71	
35	TC	12.4	12.5	12.7	12.8	13.0	13.0	13.1	13.2	13.4	13.4	13.6	13.8	14.5	14.5	14.5	14.5	14.5	S/T	0.77	0.94	1.00	1.00	0.62	0.79	0.89	1.00	0.53	0.69	0.79	0.96	0.32	0.47	0.56	0.73	PI	3.88	3.88	3.88	3.88	3.89	3.89	3.89	3.89	3.89	3.89	3.90	3.89	3.89	3.89	3.89	3.89	
43	TC	11.3	11.4	11.5	11.6	11.8	11.8	11.8	11.9	12.1	12.2	12.2	12.3	12.4	13.2	13.2	13.2	13.2	S/T	0.80	0.99	1.00	1.00	0.64	0.82	0.93	1.00	0.54	0.72	0.83	1.00	0.31	0.48	0.58	0.77	PI	4.52	4.52	4.52	4.52	4.53	4.53	4.53	4.53	4.54	4.54	4.55	4.54	4.57	4.57	4.57	4.57	
46	TC	10.8	11.0	11.1	11.2	11.4	11.4	11.5	11.6	11.8	11.8	11.8	11.9	12.7	12.7	12.7	12.7	12.7	S/T	0.81	1.00	1.00	1.00	0.65	0.84	0.95	1.00	0.54	0.73	0.84	1.00	0.31	0.48	0.59	0.78	PI	4.76	4.76	4.76	4.76	4.77	4.77	4.77	4.77	4.79	4.79	4.79	4.79	4.83	4.83	4.83	4.83	
52	TC	9.8	9.9	10.0	10.1	10.3	10.3	10.4	10.6	10.7	10.7	10.8	10.9	11.6	11.6	11.6	11.6	11.6	S/T	0.85	1.00	1.00	1.00	0.67	0.88	1.00	1.00	0.56	0.76	0.88	1.00	0.30	0.49	0.61	0.91	PI	5.37	5.37	5.37	5.37	5.38	5.38	5.38	5.38	5.40	5.40	5.40	5.40	5.44	5.44	5.44	5.44	



Cooling Performance

INDOOR AIRFLOW (CMH)	OUTDOOR DB(°C)	ID WB (°C)	16.0				18.0				19.0				22.0			
			23.0	25.0	27.0	30.0	23.0	25.0	27.0	30.0	23.0	25.0	27.0	30.0	23.0	25.0	27.0	30.0
		ID DB (°C)																
2635	27	TC	13.7	13.9	14.0	14.2	14.4	14.4	14.5	14.7	14.8	14.8	14.8	14.9	15.9	15.9	15.9	15.9
		S/T	0.79	0.97	1.00	1.00	0.63	0.81	0.92	1.00	0.53	0.71	0.82	1.00	0.31	0.47	0.57	0.76
		PI	3.42	3.42	3.42	3.42	3.43	3.43	3.43	3.43	3.43	3.43	3.43	3.43	3.44	3.44	3.44	3.44
	30	TC	13.3	13.5	13.6	13.8	14.0	14.0	14.1	14.2	14.4	14.4	14.4	14.5	15.5	15.5	15.5	15.5
		S/T	0.80	0.98	1.00	1.00	0.64	0.82	0.93	1.00	0.54	0.72	0.83	1.00	0.31	0.48	0.58	0.77
		PI	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.63	3.63	3.63	3.63	3.64	3.64	3.64	3.64
	32	TC	13.1	13.2	13.3	13.5	13.7	13.7	13.8	14.0	14.1	14.1	14.1	14.2	15.2	15.2	15.2	15.2
		S/T	0.80	1.00	1.00	1.00	0.64	0.83	0.94	1.00	0.54	0.72	0.83	1.00	0.31	0.48	0.58	0.77
		PI	3.75	3.75	3.75	3.75	3.76	3.76	3.76	3.76	3.76	3.76	3.76	3.76	3.78	3.78	3.78	3.78
	35	TC	12.7	12.8	12.9	13.0	13.3	13.3	13.4	13.6	13.7	13.7	13.9	14.0	14.8	14.8	14.8	14.8
		S/T	0.81	1.00	1.00	1.00	0.65	0.84	0.95	1.00	0.54	0.73	0.84	1.00	0.31	0.48	0.59	0.79
		PI	3.96	3.96	3.96	3.96	3.97	3.97	3.97	3.97	3.97	3.97	3.98	3.97	4.00	4.00	4.00	4.00
	43	TC	11.5	11.6	11.7	11.8	12.1	12.1	12.3	12.4	12.5	12.5	12.6	12.7	13.4	13.4	13.4	13.4
		S/T	0.85	1.00	1.00	1.00	0.67	0.88	1.00	1.00	0.56	0.76	0.88	1.00	0.30	0.49	0.61	0.90
		PI	4.61	4.61	4.61	4.61	4.62	4.62	4.62	4.62	4.64	4.64	4.64	4.64	4.68	4.68	4.68	4.68
	46	TC	11.0	11.2	11.3	11.4	11.6	11.7	11.8	12.0	12.0	12.0	12.1	12.2	13.0	13.0	13.0	13.0
		S/T	0.87	1.00	1.00	1.00	0.68	0.90	1.00	1.00	0.56	0.78	0.90	1.00	0.30	0.50	0.62	0.92
		PI	4.86	4.86	4.86	4.86	4.87	4.87	4.87	4.87	4.89	4.89	4.89	4.89	4.93	4.93	4.93	4.93
	52	TC	10.0	10.1	10.2	10.3	10.5	10.6	10.8	10.9	10.9	10.9	11.0	11.1	11.8	11.8	11.8	11.9
		S/T	0.91	1.00	1.00	1.00	0.70	0.94	1.00	1.00	0.58	0.82	0.95	1.00	0.29	0.51	0.64	0.97
		PI	5.48	5.48	5.48	5.48	5.50	5.50	5.50	5.50	5.51	5.51	5.51	5.51	5.55	5.55	5.55	5.55

TC: Total Cooling Capacity (kW) S/T: Sensible Cooling Capacity Ratio PI: Power Input(kW)

Note: The table shows the case where the operation frequency of a compressor is fixed.



Cooling Performance

ESMD60FH2 + CSD60GH2

ESMD60FH2 + CSD60GH2																			
INDOOR AIRFLOW (CMH)	OUTDOOR DB(°C)	ID WB (°C)	16.0				18.0				19.0				22.0				
			ID DB (°C)	23.0	25.0	27.0	30.0	23.0	25.0	27.0	30.0	23.0	25.0	27.0	30.0	23.0	25.0	27.0	30.0
2470	27	TC	15.2	15.2	15.3	15.5	15.9	15.9	15.9	16.0	16.4	16.4	16.4	16.5	17.6	17.6	17.6	17.6	
		S/T	0.72	0.87	0.96	1.00	0.59	0.74	0.82	0.98	0.51	0.65	0.74	0.89	0.33	0.46	0.54	0.68	
		PI	3.77	3.77	3.77	3.77	3.77	3.77	3.77	3.77	3.77	3.77	3.77	3.77	3.78	3.78	3.78	3.78	
	30	TC	14.7	14.7	14.9	15.0	15.4	15.4	15.4	15.6	15.9	15.9	15.9	16.0	17.1	17.1	17.1	17.1	
		S/T	0.73	0.88	0.97	1.00	0.60	0.74	0.83	0.99	0.52	0.66	0.74	0.90	0.33	0.46	0.54	0.69	
		PI	3.98	3.98	3.98	3.98	3.99	3.99	3.99	3.99	3.99	3.99	3.99	3.99	4.01	4.01	4.01	4.01	
	32	TC	14.4	14.6	14.7	14.9	15.1	15.1	15.1	15.3	15.6	15.6	15.6	15.6	15.7	16.8	16.8	16.8	16.8
		S/T	0.73	0.89	0.97	1.00	0.60	0.75	0.84	1.00	0.52	0.66	0.75	0.91	0.33	0.46	0.54	0.69	
		PI	4.12	4.12	4.12	4.12	4.13	4.13	4.13	4.13	4.14	4.14	4.14	4.14	4.16	4.16	4.16	4.16	
	35	TC	14.0	14.2	14.3	14.4	14.7	14.7	14.7	14.8	15.1	15.1	15.4	15.5	16.3	16.3	16.3	16.3	
		S/T	0.74	0.90	0.99	1.00	0.61	0.76	0.85	1.00	0.52	0.67	0.75	0.91	0.32	0.46	0.55	0.70	
		PI	4.35	4.35	4.35	4.35	4.36	4.36	4.36	4.36	4.37	4.37	4.38	4.37	4.40	4.40	4.40	4.40	
	43	TC	12.7	12.8	13.0	13.1	13.3	13.3	13.4	13.5	13.8	13.8	13.8	14.0	14.9	14.9	14.9	14.9	
		S/T	0.77	0.94	1.00	1.00	0.62	0.79	0.89	1.00	0.53	0.69	0.79	0.97	0.32	0.47	0.56	0.73	
		PI	5.07	5.07	5.07	5.07	5.09	5.09	5.09	5.09	5.10	5.10	5.11	5.10	5.14	5.14	5.14	5.14	
	46	TC	12.2	12.3	12.5	12.6	12.8	12.8	13.0	13.1	13.2	13.2	13.2	13.4	14.3	14.3	14.3	14.3	
		S/T	0.78	0.96	1.00	1.00	0.63	0.80	0.90	1.00	0.53	0.70	0.80	0.99	0.31	0.47	0.57	0.74	
		PI	5.34	5.34	5.34	5.34	5.36	5.36	5.36	5.36	5.38	5.38	5.38	5.38	5.42	5.42	5.42	5.42	
	52	TC	11.1	11.2	11.3	11.4	11.6	11.6	11.8	11.9	12.0	12.0	12.0	12.1	13.1	13.1	13.1	13.1	
		S/T	0.81	1.00	1.00	1.00	0.65	0.84	0.95	1.00	0.54	0.73	0.84	1.00	0.31	0.48	0.58	0.78	
		PI	6.03	6.03	6.03	6.03	6.05	6.05	6.05	6.05	6.06	6.06	6.06	6.06	6.11	6.11	6.11	6.11	
	2945	27	TC	15.5	15.6	15.8	15.9	16.2	16.2	16.2	16.4	16.7	16.7	16.7	16.9	18.0	18.0	18.0	18.0
			S/T	0.76	0.93	1.00	1.00	0.62	0.78	0.88	1.00	0.53	0.69	0.78	0.96	0.32	0.47	0.56	0.73
			PI	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.86	3.86	3.86	3.86
30		TC	15.0	15.2	15.3	15.5	15.7	15.7	15.9	16.0	16.2	16.2	16.2	16.4	17.5	17.5	17.5	17.5	
		S/T	0.77	0.94	1.00	1.00	0.62	0.79	0.89	1.00	0.53	0.69	0.79	0.98	0.32	0.47	0.56	0.74	
		PI	4.06	4.06	4.06	4.06	4.07	4.07	4.07	4.07	4.07	4.07	4.07	4.07	4.09	4.09	4.09	4.09	
32		TC	14.7	14.9	15.0	15.2	15.4	15.4	15.6	15.7	15.9	15.9	15.9	16.1	17.1	17.1	17.1	17.1	
		S/T	0.78	0.95	1.00	1.00	0.63	0.80	0.90	1.00	0.53	0.70	0.80	0.99	0.32	0.47	0.57	0.74	
		PI	4.21	4.21	4.21	4.21	4.22	4.22	4.22	4.22	4.23	4.23	4.23	4.23	4.25	4.25	4.25	4.25	
35		TC	14.3	14.4	14.6	14.7	15.0	15.0	15.1	15.3	15.4	15.4	15.7	15.8	16.6	16.6	16.6	16.6	
		S/T	0.79	0.97	1.00	1.00	0.63	0.81	0.91	1.00	0.53	0.71	0.81	1.00	0.31	0.47	0.57	0.75	
		PI	4.44	4.44	4.44	4.44	4.45	4.45	4.45	4.45	4.46	4.46	4.47	4.46	4.46	4.46	4.46	4.46	
43		TC	13.0	13.1	13.2	13.3	13.6	13.6	13.7	13.9	14.0	14.0	14.1	14.2	15.2	15.2	15.2	15.2	
		S/T	0.82	1.00	1.00	1.00	0.65	0.85	0.96	1.00	0.54	0.74	0.85	1.00	0.31	0.48	0.59	0.79	
		PI	5.17	5.17	5.17	5.17	5.19	5.19	5.19	5.19	5.21	5.21	5.21	5.21	5.24	5.24	5.24	5.24	
46		TC	12.5	12.6	12.7	12.8	13.1	13.1	13.2	13.4	13.5	13.5	13.5	13.7	14.6	14.6	14.6	14.6	
		S/T	0.83	1.00	1.00	1.00	0.66	0.86	0.98	1.00	0.55	0.75	0.87	1.00	0.30	0.49	0.60	0.81	
		PI	5.45	5.45	5.45	5.45	5.47	5.47	5.47	5.47	5.49	5.49	5.49	5.49	5.53	5.53	5.53	5.53	
52		TC	11.3	11.4	11.5	11.6	11.9	11.9	12.0	12.1	12.2	12.2	12.3	12.4	12.5	13.3	13.3	13.3	13.3
		S/T	0.87	1.00	1.00	1.00	0.68	0.90	1.00	1.00	0.56	0.78	0.91	1.00	0.30	0.50	0.62	0.91	
		PI	6.15	6.15	6.15	6.15	6.17	6.17	6.17	6.17	6.19	6.19	6.19	6.19	6.23	6.23	6.23	6.23	



Cooling Performance

INDOOR AIRFLOW (CMH)	OUTDOOR DB(°C)	ID WB (°C)	16.0				18.0				19.0				22.0			
			ID DB (°C)				ID DB (°C)				ID DB (°C)				ID DB (°C)			
			23.0	25.0	27.0	30.0	23.0	25.0	27.0	30.0	23.0	25.0	27.0	30.0	23.0	25.0	27.0	30.0
3365	27	TC	15.8	15.9	16.1	16.2	16.5	16.5	16.7	16.9	17.0	17.0	17.0	17.2	18.3	18.3	18.3	18.3
		S/T	0.80	0.99	1.00	1.00	0.64	0.82	0.93	1.00	0.54	0.72	0.83	1.00	0.31	0.48	0.58	0.77
		PI	3.92	3.92	3.92	3.92	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.94	3.94	3.94	3.94
	30	TC	15.4	15.5	15.7	15.8	16.1	16.1	16.2	16.4	16.6	16.6	16.6	16.7	17.8	17.8	17.8	17.8
		S/T	0.81	1.00	1.00	1.00	0.64	0.83	0.95	1.00	0.54	0.73	0.84	1.00	0.31	0.48	0.58	0.78
		PI	4.14	4.14	4.14	4.14	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.17	4.17	4.17	4.17
	32	TC	15.0	15.2	15.3	15.5	15.8	15.8	15.9	16.1	16.2	16.2	16.2	16.4	17.5	17.5	17.5	17.5
		S/T	0.81	1.00	1.00	1.00	0.65	0.84	0.95	1.00	0.54	0.73	0.85	1.00	0.31	0.48	0.59	0.79
		PI	4.29	4.29	4.29	4.29	4.30	4.30	4.30	4.30	4.31	4.31	4.31	4.31	4.33	4.33	4.33	4.33
	35	TC	14.6	14.7	14.9	15.0	15.3	15.3	15.4	15.6	15.8	15.8	16.0	16.1	17.0	17.0	17.0	17.0
		S/T	0.82	1.00	1.00	1.00	0.65	0.86	0.97	1.00	0.55	0.74	0.85	1.00	0.30	0.48	0.59	0.80
		PI	4.53	4.53	4.53	4.53	4.54	4.54	4.54	4.54	4.55	4.55	4.56	4.55	4.58	4.58	4.58	4.58
	43	TC	13.2	13.4	13.5	13.6	13.9	14.0	14.1	14.3	14.3	14.3	14.5	14.7	15.5	15.5	15.5	15.5
		S/T	0.86	1.00	1.00	1.00	0.68	0.89	1.00	1.00	0.56	0.77	0.90	1.00	0.30	0.49	0.61	0.90
		PI	5.28	5.28	5.28	5.28	5.30	5.30	5.30	5.30	5.31	5.31	5.32	5.31	5.35	5.35	5.35	5.35
	46	TC	12.7	12.8	13.0	13.1	13.4	13.5	13.7	13.8	13.8	13.8	14.0	14.1	14.9	14.9	14.9	14.9
		S/T	0.88	1.00	1.00	1.00	0.69	0.91	1.00	1.00	0.57	0.79	0.92	1.00	0.29	0.50	0.62	0.92
		PI	5.56	5.56	5.56	5.56	5.58	5.58	5.58	5.58	5.60	5.60	5.60	5.60	5.64	5.64	5.64	5.64
	52	TC	11.5	11.6	11.8	11.9	12.1	12.3	12.4	12.5	12.5	12.5	12.7	12.8	13.6	13.6	13.6	13.7
		S/T	0.92	1.00	1.00	1.00	0.71	0.96	1.00	1.00	0.58	0.83	0.97	1.00	0.29	0.51	0.65	0.97
		PI	6.28	6.28	6.28	6.28	6.30	6.30	6.30	6.30	6.31	6.31	6.31	6.31	6.36	6.36	6.36	6.36

TC:Total Cooling Capacity (kW) S/T:Sensible Cooling Capacity Ratio PI:Power Input(kW)

Note: The table shows the case where the operation frequency of a compressor is fixed.



Heating Performance

EDME18FH2 + CSD18FH2

EDME18 + CSD18									
INDOOR AIRFLOW (CMH)	HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE								
	OUTDOOR DB (°C)	TC : TOTAL CAPACITY IN KILOWATTS				PI : TOTAL POWER IN KILOWATTS			
		Indoor Conditions (DB °C)				Indoor Conditions (DB °C)			
		16.0	20.0	22.0	24.0	16.0	20.0	22.0	24.0
716	-7.0	4.6	4.5	4.6	4.5	1.55	1.60	1.60	1.61
	-5.6	4.6	4.6	4.6	4.5	1.53	1.56	1.58	1.59
	-2.8	4.7	4.7	4.7	4.6	1.50	1.53	1.55	1.56
	0.0	4.8	4.7	4.7	4.7	1.48	1.50	1.52	1.53
	2.8	5.0	5.0	4.9	4.9	1.46	1.49	1.50	1.52
	5.6	5.4	5.3	5.3	5.2	1.45	1.48	1.49	1.50
	7.0	5.7	5.7	5.6	5.6	1.45	1.47	1.49	1.50
	11.1	6.1	6.0	5.9	5.9	1.42	1.44	1.45	1.47
	13.9	6.3	6.2	6.2	6.1	1.40	1.42	1.43	1.44
	18.0	6.6	6.5	6.4	6.4	1.37	1.39	1.40	1.41
890	-7.0	4.7	4.6	4.7	4.6	1.57	1.62	1.62	1.63
	-5.6	4.7	4.7	4.7	4.6	1.55	1.58	1.60	1.61
	-2.8	4.8	4.8	4.7	4.7	1.52	1.55	1.57	1.58
	0.0	4.9	4.8	4.8	4.7	1.49	1.52	1.53	1.55
	2.8	5.1	5.0	5.0	5.0	1.48	1.50	1.52	1.53
	5.6	5.5	5.4	5.4	5.4	1.46	1.49	1.50	1.52
	7.0	5.9	5.9	5.7	5.7	1.46	1.48	1.50	1.51
	11.1	6.2	6.1	6.1	6.0	1.43	1.45	1.46	1.47
	13.9	6.4	6.3	6.3	6.2	1.40	1.43	1.44	1.45
	18.0	6.7	6.6	6.6	6.5	1.37	1.39	1.40	1.41
1038	-7.0	4.8	4.6	4.7	4.7	1.59	1.64	1.63	1.65
	-5.6	4.8	4.7	4.7	4.7	1.57	1.60	1.61	1.63
	-2.8	4.9	4.8	4.8	4.8	1.54	1.57	1.58	1.60
	0.0	4.9	4.9	4.8	4.8	1.51	1.53	1.55	1.56
	2.8	5.2	5.1	5.0	5.0	1.49	1.52	1.53	1.54
	5.6	5.6	5.5	5.5	5.4	1.47	1.50	1.51	1.53
	7.0	5.9	5.9	5.8	5.8	1.47	1.49	1.51	1.52
	11.1	6.2	6.2	6.1	6.1	1.43	1.46	1.47	1.48
	13.9	6.5	6.4	6.3	6.3	1.41	1.43	1.45	1.46
	18.0	6.8	6.7	6.7	6.6	1.38	1.40	1.41	1.42



Heating Performance

EDME24FH2 + CSD24FH2

EDME24 + CSD24									
INDOOR AIRFLOW (CMH)	HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE								
	OUTDOOR DB (°C)	TC : TOTAL CAPACITY IN KILOWATTS				PI : TOTAL POWER IN KILOWATTS			
		Indoor Condi ons (DB °C)				Indoor Condi ons (DB °C)			
		16.0	20.0	22.0	24.0	16.0	20.0	22.0	24.0
929	-7.0	0.7	-	0.6	0.6	0.03	-	0.20	0.25
	-5.6	1.3	1.2	1.2	1.1	0.19	0.32	0.38	0.44
	-2.8	2.5	2.4	2.3	2.3	0.52	0.66	0.73	0.80
	0.0	3.5	3.5	3.4	3.4	0.85	1.01	1.08	1.16
	2.8	4.9	4.8	4.8	4.7	1.20	1.37	1.46	1.54
	5.6	6.5	6.4	6.4	6.3	1.55	1.74	1.83	1.92
	7.0	7.5	8.0	7.4	7.3	1.74	2.16	2.03	2.13
	11.1	9.5	9.4	9.3	9.3	2.24	2.46	2.57	2.68
	13.9	10.9	10.7	10.7	10.6	2.58	2.82	2.93	3.05
	16.7	12.2	12.1	12.0	12.0	2.92	3.17	3.29	3.42
18.0	12.9	12.7	12.7	12.6	3.09	3.34	3.47	3.60	
1194	-7.0	0.7	-	0.6	0.6	0.03	-	0.20	0.26
	-5.6	1.3	1.2	1.2	1.1	0.20	0.32	0.38	0.44
	-2.8	2.5	2.4	2.4	2.3	0.53	0.67	0.74	0.80
	0.0	3.6	3.5	3.5	3.5	0.86	1.01	1.09	1.17
	2.8	5.0	4.9	4.9	4.8	1.21	1.38	1.47	1.55
	5.6	6.7	6.5	6.5	6.4	1.57	1.75	1.85	1.94
	7.0	7.7	8.2	7.5	7.5	1.76	2.18	2.05	2.15
	11.1	9.7	9.6	9.6	9.5	2.27	2.48	2.59	2.70
	13.9	11.1	11.0	10.9	10.8	2.61	2.84	2.96	3.08
	16.7	12.5	12.3	12.3	12.2	2.95	3.20	3.33	3.45
18.0	13.1	13.0	12.9	12.9	3.12	3.37	3.50	3.63	
1362	-7.0	0.8	-	0.6	0.6	0.03	-	0.20	0.26
	-5.6	1.3	1.2	1.2	1.2	0.20	0.32	0.38	0.44
	-2.8	2.5	2.5	2.4	2.4	0.53	0.67	0.74	0.81
	0.0	3.7	3.6	3.5	3.5	0.87	1.02	1.10	1.18
	2.8	5.1	5.0	4.9	4.9	1.23	1.40	1.48	1.57
	5.6	6.7	6.6	6.6	6.5	1.58	1.77	1.86	1.96
	7.0	7.8	8.3	7.6	7.6	1.77	2.20	2.07	2.17
	11.1	9.8	9.7	9.6	9.6	2.29	2.51	2.62	2.73
	13.9	11.2	11.1	11.0	11.0	2.63	2.87	2.99	3.10
	16.7	12.6	12.5	12.4	12.3	2.98	3.23	3.36	3.48
18.0	13.3	13.1	13.1	13.0	3.14	3.40	3.53	3.66	

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Heating Performance

ESME36FH2 + CSD36FH2

ESME36 + CSD36									
INDOOR AIRFLOW (CMH)	HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE								
	OUTDOOR DB (°C)	TC : TOTAL CAPACITY IN KILOWATTS				PI : TOTAL POWER IN KILOWATTS			
		Indoor Conditions (DB °C)				Indoor Conditions (DB °C)			
		16.0	20.0	22.0	24.0	16.0	20.0	22.0	24.0
1366	-7.0	8.2	8.0	8.1	8.1	3.25	3.36	3.30	3.32
	-5.6	8.2	8.1	8.1	8.0	3.17	3.20	3.21	3.23
	-2.8	8.3	8.2	8.1	8.1	3.02	3.05	3.06	3.07
	0.0	8.3	8.2	8.1	8.1	2.88	2.90	2.91	2.92
	2.8	8.6	8.5	8.5	8.4	2.76	2.77	2.78	2.79
	5.6	9.2	9.1	9.1	9.0	2.64	2.65	2.65	2.65
	7.0	9.8	9.8	9.6	9.5	2.58	2.52	2.59	2.59
	11.1	10.2	10.1	10.0	10.0	2.39	2.38	2.38	2.38
	13.9	10.6	10.4	10.3	10.3	2.25	2.24	2.24	2.23
	16.7	10.8	10.7	10.6	10.6	2.12	2.10	2.10	2.09
18.0	11.0	10.8	10.8	10.7	2.06	2.04	2.03	2.02	
1884	-7.0	8.4	8.1	8.3	8.2	3.28	3.39	3.33	3.35
	-5.6	8.4	8.3	8.2	8.2	3.20	3.23	3.25	3.26
	-2.8	8.5	8.4	8.3	8.3	3.05	3.08	3.09	3.11
	0.0	8.5	8.4	8.3	8.3	2.91	2.93	2.94	2.95
	2.8	8.8	8.7	8.6	8.6	2.79	2.80	2.81	2.82
	5.6	9.4	9.3	9.2	9.2	2.67	2.68	2.68	2.68
	7.0	10.0	10.0	9.8	9.7	2.61	2.55	2.62	2.62
	11.1	10.5	10.3	10.2	10.2	2.41	2.41	2.41	2.41
	13.9	10.8	10.6	10.6	10.5	2.28	2.27	2.27	2.26
	16.7	11.1	10.9	10.8	10.8	2.15	2.13	2.12	2.12
18.0	11.2	11.1	11.0	10.9	2.08	2.07	2.06	2.05	
2261	-7.0	8.5	8.2	8.4	8.3	3.31	3.43	3.37	3.39
	-5.6	8.4	8.4	8.3	8.3	3.23	3.27	3.28	3.30
	-2.8	8.6	8.5	8.4	8.4	3.09	3.11	3.13	3.14
	0.0	8.6	8.5	8.4	8.4	2.94	2.96	2.97	2.98
	2.8	8.9	8.8	8.7	8.6	2.82	2.83	2.84	2.85
	5.6	9.5	9.4	9.3	9.3	2.70	2.71	2.71	2.72
	7.0	10.1	10.1	9.9	9.8	2.64	2.58	2.65	2.65
	11.1	10.6	10.4	10.3	10.3	2.44	2.44	2.44	2.44
	13.9	10.8	10.7	10.6	10.6	2.31	2.30	2.29	2.29
	16.7	11.2	11.0	10.9	10.8	2.18	2.16	2.15	2.14
18.0	11.3	11.2	11.1	11.0	2.11	2.09	2.08	2.07	



Heating Performance

ESME48FH2 + CSD48FH2

ESME48FH+CSD48FH									
INDOOR AIRFLOW (CMH)	HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE								
	OUTDOOR DB (°C)	TC : TOTAL CAPACITY IN KILOWATTS				PI : TOTAL POWER IN KILOWATTS			
		Indoor Conditions (DB °C)				Indoor Conditions (DB °C)			
		16.0	20.0	22.0	24.0	16.0	20.0	22.0	24.0
1986	-7.0	13.7	13.4	13.5	13.4	5.21	5.39	5.28	5.30
	-5.6	13.5	13.4	13.3	13.2	5.06	5.10	5.13	5.15
	-2.8	13.5	13.3	13.3	13.2	4.80	4.83	4.85	4.86
	0.0	13.3	13.2	13.1	13.0	4.54	4.56	4.57	4.58
	2.8	13.6	13.4	13.3	13.2	4.32	4.33	4.33	4.34
	5.6	14.3	14.1	14.0	14.0	4.10	4.10	4.10	4.09
	7.0	15.1	14.9	14.8	14.7	3.99	3.86	3.98	3.98
	11.1	15.5	15.3	15.2	15.1	3.64	3.61	3.60	3.59
	13.9	15.8	15.5	15.4	15.3	3.40	3.36	3.34	3.32
	16.7	16.0	15.8	15.7	15.6	3.16	3.11	3.08	3.06
18.0	16.2	15.9	15.8	15.7	3.04	2.99	2.96	2.93	
2424	-7.0	13.9	13.6	13.7	13.7	5.26	5.44	5.33	5.35
	-5.6	13.8	13.6	13.6	13.5	5.11	5.15	5.17	5.20
	-2.8	13.7	13.6	13.5	13.5	4.85	4.88	4.90	4.91
	0.0	13.6	13.4	13.3	13.2	4.59	4.61	4.62	4.63
	2.8	13.9	13.7	13.6	13.5	4.36	4.37	4.38	4.38
	5.6	14.6	14.4	14.3	14.2	4.14	4.14	4.14	4.14
	7.0	15.4	15.2	15.1	15.0	4.03	3.90	4.02	4.02
	11.1	15.8	15.6	15.5	15.4	3.67	3.65	3.64	3.63
	13.9	16.1	15.8	15.7	15.6	3.43	3.40	3.38	3.36
	16.7	16.4	16.1	16.0	15.9	3.19	3.14	3.12	3.10
18.0	16.5	16.2	16.1	16.0	3.07	3.02	2.99	2.97	
2835	-7.0	14.1	13.8	13.9	13.8	5.31	5.50	5.39	5.41
	-5.6	13.9	13.8	13.7	13.6	5.16	5.21	5.23	5.25
	-2.8	13.9	13.7	13.7	13.6	4.90	4.93	4.95	4.96
	0.0	13.7	13.5	13.5	13.4	4.63	4.66	4.67	4.68
	2.8	14.0	13.8	13.7	13.7	4.41	4.42	4.42	4.43
	5.6	14.7	14.6	14.4	14.4	4.18	4.18	4.18	4.18
	7.0	15.5	15.4	15.2	15.1	4.08	3.94	4.06	4.06
	11.1	15.9	15.7	15.6	15.5	3.71	3.69	3.67	3.66
	13.9	16.2	16.0	15.9	15.8	3.47	3.43	3.41	3.39
	16.7	16.5	16.3	16.1	16.0	3.22	3.17	3.15	3.13
18.0	16.6	16.4	16.3	16.1	3.10	3.05	3.02	3.00	



Heating Performance

ESME60FH2 + CSD60FH2

ESME60FH+CSD60FH									
INDOOR AIRFLOW (CMH)	HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE								
	OUTDOOR DB (°C)	TC : TOTAL CAPACITY IN KILOWATTS				PI : TOTAL POWER IN KILOWATTS			
		Indoor Conditions (DB °C)				Indoor Conditions (DB °C)			
		16.0	20.0	22.0	24.0	16.0	20.0	22.0	24.0
2470	-7.0	11.4	10.8	11.2	11.1	4.16	4.29	4.30	4.35
	-5.6	11.5	11.4	11.3	11.2	4.13	4.22	4.27	4.32
	-2.8	12.1	11.9	11.8	11.8	4.09	4.18	4.23	4.27
	0.0	12.5	12.3	12.2	12.1	4.04	4.14	4.18	4.23
	2.8	13.4	13.2	13.1	13.0	4.04	4.14	4.18	4.23
	5.6	14.7	14.5	14.4	14.3	4.04	4.14	4.18	4.23
	7.0	15.8	16.0	15.5	15.4	4.05	4.16	4.19	4.24
	11.1	17.1	16.9	16.8	16.7	4.02	4.11	4.16	4.20
	13.9	18.0	17.8	17.6	17.5	4.00	4.09	4.14	4.18
	16.7	18.9	18.6	18.5	18.4	3.98	4.07	4.11	4.16
18.0	19.3	19.1	18.9	18.8	3.97	4.06	4.10	4.15	
2945	-7.0	11.6	11.0	11.4	11.3	4.20	4.34	4.35	4.40
	-5.6	11.8	11.6	11.5	11.5	4.17	4.27	4.32	4.36
	-2.8	12.3	12.2	12.1	12.0	4.13	4.22	4.27	4.32
	0.0	12.7	12.6	12.5	12.4	4.09	4.18	4.23	4.27
	2.8	13.6	13.5	13.4	13.2	4.09	4.18	4.22	4.27
	5.6	15.0	14.8	14.7	14.6	4.09	4.18	4.22	4.27
	7.0	16.1	16.3	15.8	15.7	4.10	4.20	4.23	4.28
	11.1	17.5	17.2	17.1	17.0	4.06	4.15	4.20	4.24
	13.9	18.4	18.1	18.0	17.9	4.04	4.13	4.17	4.22
	16.7	19.3	19.0	18.9	18.8	4.02	4.11	4.15	4.19
18.0	19.7	19.4	19.3	19.2	4.01	4.10	4.14	4.18	
3365	-7.0	11.7	11.1	11.5	11.5	4.25	4.38	4.39	4.44
	-5.6	11.9	11.7	11.7	11.6	4.21	4.31	4.36	4.40
	-2.8	12.5	12.3	12.2	12.1	4.17	4.26	4.31	4.36
	0.0	12.9	12.7	12.6	12.5	4.13	4.22	4.27	4.31
	2.8	13.8	13.6	13.5	13.4	4.13	4.22	4.26	4.31
	5.6	15.2	15.0	14.9	14.8	4.12	4.22	4.26	4.31
	7.0	16.3	16.5	16.0	15.9	4.13	4.24	4.27	4.32
	11.1	17.6	17.4	17.3	17.2	4.10	4.19	4.24	4.28
	13.9	18.6	18.3	18.2	18.1	4.08	4.17	4.21	4.26
	16.7	19.5	19.2	19.1	19.0	4.06	4.15	4.19	4.23
18.0	19.9	19.6	19.5	19.4	4.05	4.13	4.18	4.22	



Heating Performance

ESMD48FH2 + CSD48GH2

ESMD48FH2 + CSD48GH2									
HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE									
INDOOR AIRFLOW (CMH)	OUTDOOR DB(°C)	TC:TOTAL CAPACITY IN KILOWATTS				PI:TOTAL POWER IN KILOWATTS			
		Indoor Conditions (DB °C)				Indoor Conditions (DB °C)			
		16.0	20.0	22.0	24.0	16.0	20.0	22.0	24.0
1986	-7.0	13.7	13.4	13.5	13.4	5.21	5.39	5.28	5.30
	-5.6	13.5	13.4	13.3	13.2	5.06	5.10	5.13	5.15
	-2.8	13.5	13.3	13.3	13.2	4.80	4.83	4.85	4.86
	0.0	13.3	13.2	13.1	13.0	4.54	4.56	4.57	4.58
	2.8	13.6	13.4	13.3	13.2	4.32	4.33	4.33	4.34
	5.6	14.3	14.1	14.0	14.0	4.10	4.10	4.10	4.09
	7.0	15.1	14.9	14.8	14.7	3.99	3.86	3.98	3.98
	11.1	15.5	15.3	15.2	15.1	3.64	3.61	3.60	3.59
	13.9	15.8	15.5	15.4	15.3	3.40	3.36	3.34	3.32
	16.7	16.0	15.8	15.7	15.6	3.16	3.11	3.08	3.06
18.0	16.2	15.9	15.8	15.7	3.04	2.99	2.96	2.93	
2424	-7.0	13.9	13.6	13.7	13.7	5.26	5.44	5.33	5.35
	-5.6	13.8	13.6	13.6	13.5	5.11	5.15	5.17	5.20
	-2.8	13.7	13.6	13.5	13.5	4.85	4.88	4.90	4.91
	0.0	13.6	13.4	13.3	13.2	4.59	4.61	4.62	4.63
	2.8	13.9	13.7	13.6	13.5	4.36	4.37	4.38	4.38
	5.6	14.6	14.4	14.3	14.2	4.14	4.14	4.14	4.14
	7.0	15.4	15.2	15.1	15.0	4.03	3.90	4.02	4.02
	11.1	15.8	15.6	15.5	15.4	3.67	3.65	3.64	3.63
	13.9	16.1	15.8	15.7	15.6	3.43	3.40	3.38	3.36
	16.7	16.4	16.1	16.0	15.9	3.19	3.14	3.12	3.10
18.0	16.5	16.2	16.1	16.0	3.07	3.02	2.99	2.97	
2835	-7.0	14.1	13.8	13.9	13.8	5.31	5.50	5.39	5.41
	-5.6	13.9	13.8	13.7	13.6	5.16	5.21	5.23	5.25
	-2.8	13.9	13.7	13.7	13.6	4.90	4.93	4.95	4.96
	0.0	13.7	13.5	13.5	13.4	4.63	4.66	4.67	4.68
	2.8	14.0	13.8	13.7	13.7	4.41	4.42	4.42	4.43
	5.6	14.7	14.6	14.4	14.4	4.18	4.18	4.18	4.18
	7.0	15.5	15.4	15.2	15.1	4.08	3.94	4.06	4.06
	11.1	15.9	15.7	15.6	15.5	3.71	3.69	3.67	3.66
	13.9	16.2	16.0	15.9	15.8	3.47	3.43	3.41	3.39
	16.7	16.5	16.3	16.1	16.0	3.22	3.17	3.15	3.13
18.0	16.6	16.4	16.3	16.1	3.10	3.05	3.02	3.00	



Heating Performance

ESMD60FH2 + CSD60GH2

ESMD60FH2 + CSD60GH2									
HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE									
INDOOR AIRFLOW (CMH)	OUTDOOR DB(°C)	TC:TOTAL CAPACITY IN KILOWATTS				PI:TOTAL POWER IN KILOWATTS			
		Indoor Conditions (DB °C)				Indoor Conditions (DB °C)			
		16.0	20.0	22.0	24.0	16.0	20.0	22.0	24.0
2470	-7.0	11.4	10.8	11.2	11.1	4.16	4.29	4.30	4.35
	-5.6	11.5	11.4	11.3	11.2	4.13	4.22	4.27	4.32
	-2.8	12.1	11.9	11.8	11.8	4.09	4.18	4.23	4.27
	0.0	12.5	12.3	12.2	12.1	4.04	4.14	4.18	4.23
	2.8	13.4	13.2	13.1	13.0	4.04	4.14	4.18	4.23
	5.6	14.7	14.5	14.4	14.3	4.04	4.14	4.18	4.23
	7.0	15.8	16.0	15.5	15.4	4.05	4.16	4.19	4.24
	11.1	17.1	16.9	16.8	16.7	4.02	4.11	4.16	4.20
	13.9	18.0	17.8	17.6	17.5	4.00	4.09	4.14	4.18
	16.7	18.9	18.6	18.5	18.4	3.98	4.07	4.11	4.16
2945	-7.0	11.6	11.0	11.4	11.3	4.20	4.34	4.35	4.40
	-5.6	11.8	11.6	11.5	11.5	4.17	4.27	4.32	4.36
	-2.8	12.3	12.2	12.1	12.0	4.13	4.22	4.27	4.32
	0.0	12.7	12.6	12.5	12.4	4.09	4.18	4.23	4.27
	2.8	13.6	13.5	13.4	13.2	4.09	4.18	4.22	4.27
	5.6	15.0	14.8	14.7	14.6	4.09	4.18	4.22	4.27
	7.0	16.1	16.3	15.8	15.7	4.10	4.20	4.23	4.28
	11.1	17.5	17.2	17.1	17.0	4.06	4.15	4.20	4.24
	13.9	18.4	18.1	18.0	17.9	4.04	4.13	4.17	4.22
	16.7	19.3	19.0	18.9	18.8	4.02	4.11	4.15	4.19
3365	-7.0	11.7	11.1	11.5	11.5	4.25	4.38	4.39	4.44
	-5.6	11.9	11.7	11.7	11.6	4.21	4.31	4.36	4.40
	-2.8	12.5	12.3	12.2	12.1	4.17	4.26	4.31	4.36
	0.0	12.9	12.7	12.6	12.5	4.13	4.22	4.27	4.31
	2.8	13.8	13.6	13.5	13.4	4.13	4.22	4.26	4.31
	5.6	15.2	15.0	14.9	14.8	4.12	4.22	4.26	4.31
	7.0	16.3	16.5	16.0	15.9	4.13	4.24	4.27	4.32
	11.1	17.6	17.4	17.3	17.2	4.10	4.19	4.24	4.28
	13.9	18.6	18.3	18.2	18.1	4.08	4.17	4.21	4.26
	16.7	19.5	19.2	19.1	19.0	4.06	4.15	4.19	4.23
18.0	19.9	19.6	19.5	19.4	4.05	4.13	4.18	4.22	



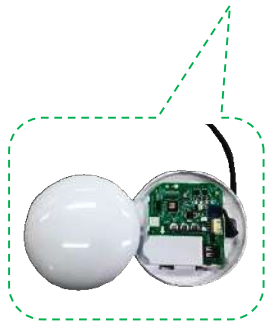
Smart Control

Smart Air Conditioner (Optional)

Air conditioners controlled by smartphone/tab through wireless router and internet from anywhere in the world



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Wifi Module



Router

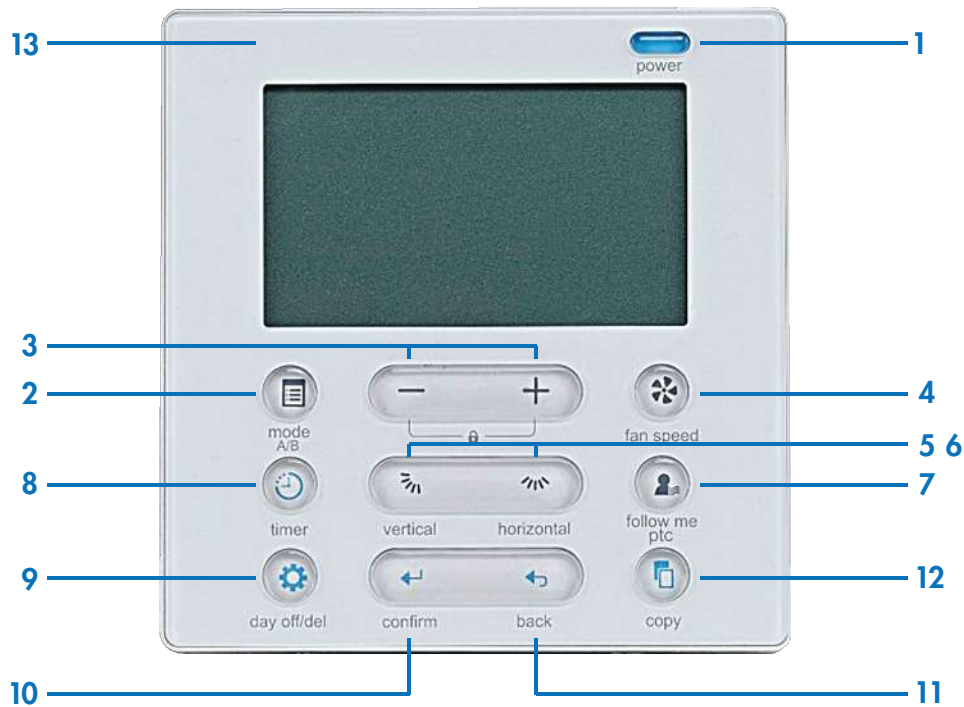


Cloud Servers & Internet

Operation system: Android (above version 3.1) or IOS (above version 6.1)

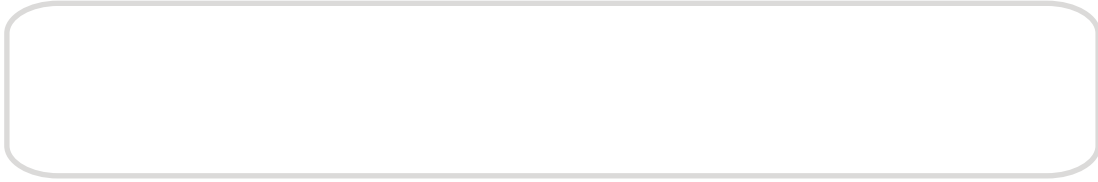


Name and Operation of the Wired Controller



1. Power button
2. Mode (A/B) button
3. Adjust button
4. Fan speed button
5. Up-down airflow & swing button
6. Left-right airflow swing button
7. Follow me (PTC) button
8. Timer button
9. Delay/day off button
10. Confirm button
11. Back button
12. Copy button
13. Infrared remote receiver (on some models)

AUTHORISED DISTRIBUTORS



AWAL GULF WORLDWIDE

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