



MATBOOE MRAN



# AIR CONDITIONER **CATALOG 2024**

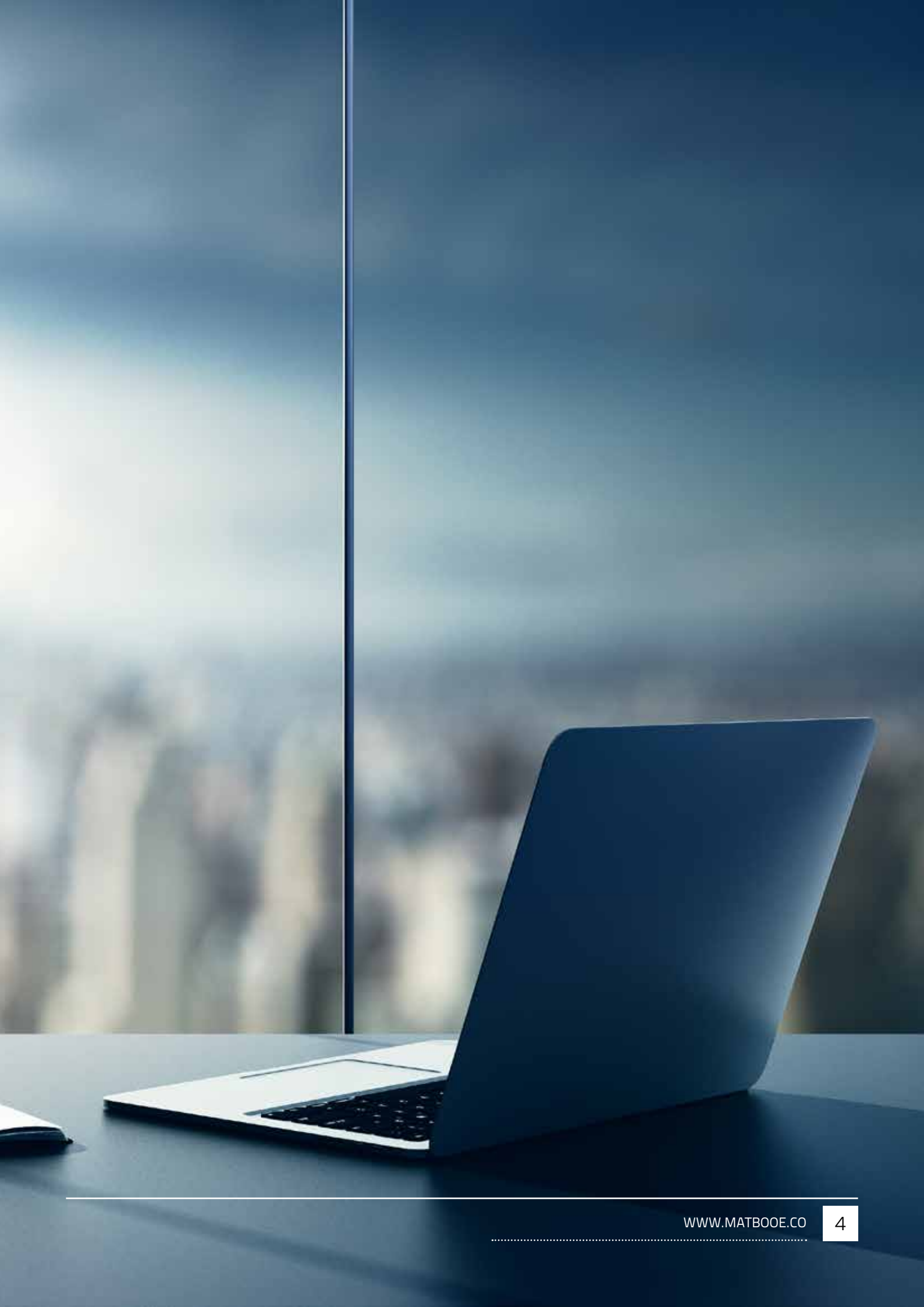


Galx°C<sup>®</sup>



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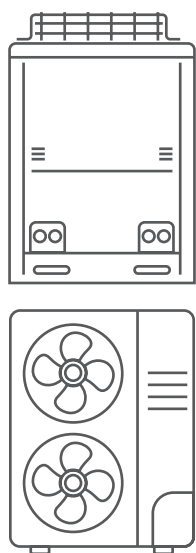




شرکت مطبوع عمران سهامی خاص - تاسیس ۱۳۸۷  
با حضور جمعی از دانش آموختگان دانشگاه های سراسری مفتخر  
به فعالیت مستمر در زمینه تهویه مطبوع و کولینگ صنعتی با  
عرضه بهترین برندهای معتبر جهانی، نقشی سازنده و ثمربخش  
در جهت ارتقای کیفیت و کاهش مصارف انرژی ایفا می نماید.  
محصولات ارائه شده توسط این شرکت همگی دارای کیفیت بالا، بهره مندی  
از تکنولوژی، عملکرد مطمئن، راندمان بالا، بهینه سازی هدف انرژی، حفظ  
محیط زیست و هوشمند بودن می باشند.  
ارائه راه حل های نوین فنی و مهندسی برای پروژه از یک سو و سبد  
کالای کامل محصولات از سوی دیگر، امکان پاسخگوئی به نیازهای تهویه  
مطبوع و صنعتی را توسط کارشناسان متخصص این شرکت فراهم  
نموده است. شرکت مطبوع عمران اولین ارائه کننده چیلرهای تکنولوژی  
جدید با کمترین میزان صدای تولیدی و مصارف انرژی در ایران می باشد.  
واحد خدمات پس از فروش دارای تعمیرگاه مجهز و اکیپ های اجرائی  
بصورت On Call در ۲۴ ساعت شبانه روز همواره آماده پشتیبانی و تامین  
قطعات برای محصولات خود است.



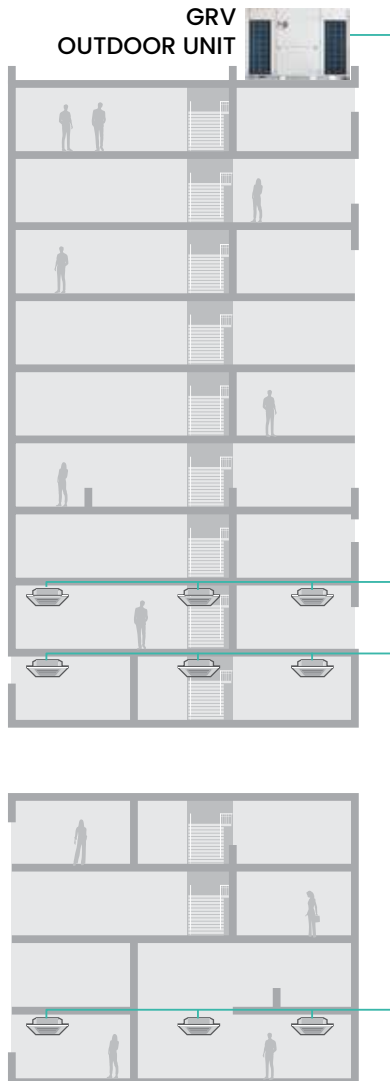
# VRF OUTDOOR UNIT



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GRV  
OUTDOOR UNIT

**200m**  
Max. piping length between ODU and farthest IDU

**110m**  
Max. Level difference between ODU and IDU units

**1,000m**  
Max. Total Piping Length

**40m/90mx**  
Max. piping length from 1st indoor branch to the farthest indoor unit



## Highlight



Energy savings



Reliability



Low noise



Advanced performance

## How does it work?



Dual Sensing



Partial Defrost


- Max. Total piping length – 1000m
- Max. piping length between ODU and farthest IDU – 200m
- Max. piping length from 1st indoor branch to the farthest indoor unit – 40m/90mx
- Max. Level difference between indoor units – 30m
- Max. Level difference between ODU and IDU units – 110m








# GRV INDEPENDENT SERIES

## PRODUCT LINEUP



### Mini GRV Outdoor Unit

Capacity (KW)	Appearance	6	8	10	12	14	16	22	26
Mini GRV			•	•	•	•	•	•	•












### Indoor Unit (AC fan motors)

Capacity (kw)	Appearance	2.2	2.8	3.6	4.5	5.6	7.1	8.0	9.0	10.0	11.2	12.5	14.0	15.0
4 Way Cassette			•	•	•	•	•	•	•	•	•	•	•	
Concealed Ceiling		•	•	•	•	•	•							
Concealed Ceiling (Low Static)		•	•	•	•	•	•							
Concealed Ceiling (Mid ESP)					•	•	•	•	•	•	•	•	•	•
Concealed Ceiling (High ESP)											•	•	•	•

Capacity (kw)	Appearance	22.0	28.0	45.0	56.0
Concealed Ceiling (High Static)		•	•	•	•
Fresh Air Unit		•	•	•	•

### ویژگی‌ها

به خاطر سپردن پارامترهای عملکرد		کنترل با موج سینوسی 180°		سیستم تمام DC اینورتر		تکنولوژی VER (Variable Energy Regulation)	
کنترل دقیق میرد		ظرفیت بالا و ترکیب متنوع		چهار تکنولوژی جهت کاهش مصرف انرژی		مبدل حرارتی با راندها بالا	
عملکرد جایگزینی هر دستگاه		فشار استاتیکی متغیر		طراحی ولتاژ گسترده		طیف کاربرد و عملکرد گسترده	
تکنولوژی‌های پشتیبان		سرمايش و گرمايش سریع		عملکرد بی صدا		متراژ طول لوله کشی بالا	
ارتباط غیر قطبی		عملکرد راه اندازی خودکار		کاربری آسان		کنترل دقیق دما	
تست با یک دکمه		غبار زدائی و پرتاب برف به صورت خودکار		ابعاد مناسب جهت نصب		عملکرد اقتصادی	

## GRV 6 Series 380~415V-50/60Hz

HP			8	10	12	14
Model			GRV-H250	GRV-H280	GRV-H330	GRV-H400
Combination			8	10	12	14
Capacity	Cooling	kW	25.2	28	33.5	40
	Heating	kW	25.2	28	33.5	40
Electric Data	Power supply	V~,Hz,Ph	380~415,3,50/60	380~415,3,50/60	380~415,3,50/60	380~415,3,50/60
	Cooling input	kW	5.31	6.11	8.48	9.9
	EER	W/W	4.75	4.58	3.95	4.04
	Heating input	kW	4.60	5.23	6.38	8.25
	COP	W/W	5.48	5.35	5.25	4.85
Performance	Air Flow Volume	m³/h	12000	12000	12000	14000
	Sound Pressure level	dB(A)	≤58	≤58	≤58	≤61
Compressor	Type	DC inverter				
	Quantity	1				
Fan motor	Type	DC motor				
	Quantity	1				
Max. No. of Indoor Units	unit		13	16	20	23
Connection Ratio	%		50~200	50~200	50~200	50~200
Dimension (WxDxH)	Net	mm	990×765×1635	990×765×1635	990×765×1635	1340×765×1635
	Packing	mm	1030×825×1865	1030×825×1865	1030×825×1865	1395×825×1865
Weight	Net	kg	215	215	230	265
	Gross	kg	225	225	240	280
Pipe Diameter	Liquid Side	mm	12.7	12.7	12.7	15.88
	Gas Side	mm	22.2	22.2	22.2	28.6
Operation Range	Cooling	°C	-5~+52	-5~+52	-5~+52	-5~+52
	Heating	°C	-15~+24	-15~+24	-15~+24	-15~+24
Stuffing Quantity	20/40/40H unit		14/28/28	14/28/28	14/28/28	11/22/22

## GRV 6 Series 380~415V-50/60Hz

HP			16	18	20	22
Model			GRV-H450	GRV-H500	GRV-H560	GRV-H610
Combination			16	18	20	22
Capacity	Cooling	kW	45	50.4	56	61.5
	Heating	kW	45	50.4	56	61.5
Electric Data	Power supply	V~,Hz,Ph	380~415,3,50/60	380~415,3,50/60	380~415,3,50/60	380~415,3,50/60
	Cooling input	kW	11.82	12.63	15.34	18.90
	EER	W/W	3.81	3.99	3.65	3.25
	Heating input	kW	9.78	11.69	13.83	15.44
	COP	W/W	4.60	4.31	4.05	3.98
SEER			6.3	6.0	5.6	5.2
SCOP			4.2	4.0	3.6	3.5
Performance	Air Flow Volume	m³/h	14000	16000	16000	16000
	Sound Pressure level	dB(A)	≤61	≤63	≤63	≤63
Compressor	Type	DC inverter				
	Quantity	2				
Fan motor	Type	DC motor				
	Quantity	2				
Max. No. of Indoor Units	unit		26	30	33	36
Connection Ratio	%		50~200	50~200	50~200	50~200
Dimension (WxDxH)	Net	mm	1340×765×1635	1340×765×1635	1340×765×1635	1340×765×1635
	Packing	mm	1395×815×1865	1395×815×1865	1395×815×1865	1395×815×1865
Weight	Net	kg	265	330	330	330
	Gross	kg	280	345	345	345
Pipe Diameter	Liquid Side	mm	15.88	15.88	15.88	15.88
	Gas Side	mm	28.6	28.6	28.6	28.6
Operation Range	Cooling	°C	-5~+52	-5~+52	-5~+52	-5~+52
	Heating	°C	-20~+24	-20~+24	-20~+24	-20~+24
Stuffing Quantity	2040/40/H unit		11/22/22	11/22/22	11/22/22	11/22/22

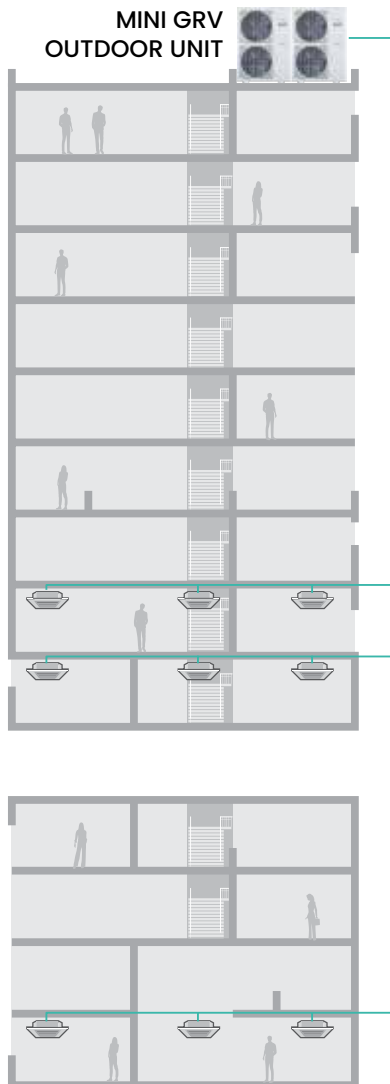
# GRV 6 INDIVIDUAL SERIES

## GRV Individual Series 415~380V50-Hz

HP			22	24	26	28	30	32
Model			GRV-H620	GRV-H670	GRV-H730	GRV-H780	GRV-H850	GRV-H900
Capacity	Cooling	kW	61.5	67	73	78.5	85	90
	Heating	kW	69	75	81.5	87.5	95	100
Electric Data	Power supply	V~,Hz,Ph	380 ~415, 50, 3	380 ~415, 50, 3	380 ~415, 50, 3	380 ~415, 50, 3	380 ~415, 50, 3	380 ~415, 50, 3
	Cooling input	kW	18.67	20.1	21.9	23.7	25.8	27.5
	EER	W/W	3.29	3.33	3.33	3.31	3.29	3.27
	Heating input	kW	17.75	19.3	20.2	22	24.4	26.3
	COP	W/W	3.89	3.89	4.03	3.98	3.89	3.80
	Performance	Air Flow Volume	m³/h	21000	21000	28000	28000	30000
	Sound Pressure level	dB(A)	≤63	≤63	≤65	≤65	≤65	≤65
Compressor	Type		DC inverter	DC inverter	DC inverter	DC inverter	DC inverter	DC inverter
	Quantity		2	2	2	2	2	2
Fan motor	Type		AC motor	AC motor	AC motor	AC motor	AC motor	AC motor
	Quantity		2	2	2	2	2	2
Max. No. of Indoor Units	unit		36	39	43	46	50	53
Connection Ratio	%		50~130%	50~130%	50~130%	50~130%	50~130%	50~130%
Dimension (WxDxH)	Net	mm	1590×765×1600	1590×765×1600	2350×765×1600	2350×765×1600	2350×765×1600	2350×765×1600
	Packing	mm	1650×815×1770	1650×815×1770	2410×815×1770	2410×815×1770	2410×815×1770	2410×815×1770
Weight	Net	kg	400	400	500	500	500	500
	Gross	kg	420	420	515	515	515	515
Refrigerant Type			R410A	R410A	R410A	R410A	R410A	R410A
Pipe Diameter	Liquid Side	mm	12.7	12.7	12.7	15.88	15.88	15.88
	Gas Side	mm	22.2	22.2	22.2	28.6	28.6	28.6
Operation Range	Cooling	°C	-5~+55	-5~+55	-5~+55	-5~+55	-5~+55	-5~+55
	Heating	°C	-20~+24	-20~+24	-20~+24	-20~+24	-20~+24	-20~+24
Stuffing Quantity	20/40/40H	unit	14/28/28	14/28/28	14/28/28	11/22/22	11/22/22	11/22/22

- Notes:
- Cooling Capacity: Indoor temperature 27°C DB/19°C WB; Outdoor temperature: 35°C DB/ 24°C WB.
  - Heating Capacity: Indoor temperature 20°C DB; Outdoor temperature: 7°C DB/ 6°C WB.
  - Piping Length: Equivalent piping length: 7.5m, level difference: 0m.
  - Anechoic chamber conversion value, measured in test room. During actual operation. These values are normally somewhat higher as a result of ambient conditions.
  - The above designs and specifications are subject to change without prior notice. Final specifications please refer to technical specification provided by sales representative.
  - Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and 1.3m above the floor.
  - The above combined types are factory-recommended type. The combined type also can be combined at will.





**50 m**  
Level difference between IDU and ODU

**250 m**  
Max. Total Piping Length



### Highlight



Energy savings



Reliability



Low noise



Advanced performance

### How does it work?

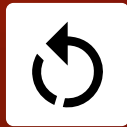


Dual Sensing

- Level difference between IDU and ODU 50 Meter
- Level difference between IDU and IDU 15 Meter
- Between the first brance and the Farthest IDUm 40 Meter
- Total Pipe length 250 Meter



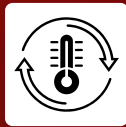
DC Inverter  
Compressor



Auto  
Restart  
Function



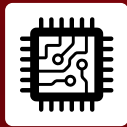
Fast  
Cooling/  
Heating  
Technology



Accurate  
Temperature  
Control



Wide  
Voltage  
Design



Refrigerant  
PCB Cooling  
Technology



Flexible And  
Diversified  
Matching Of  
Indoor And  
Outdoor Unit



# MINI GRV ALL DC INVERTER



## GRV 6 SERIES | Single Phase

Model			Outdoor			GRV-H080/NR1	GRV-H100/NR1	GRV-H120/NR1	GRV-H140/NR1	GRV-H160/NR1
Capacity	Power Supply	V~,Hz,Ph	8.00	10.00	12.30	14.00	16.00			
	Cooling Power Input	kW	9.00	11.50	13.20	16.00	18.00			
Electric Data	Power Supply	V~,Hz,Ph	220~240,50/60,1	220~240,50/60,1	220~240,50/60,1	220~240,50/60,1	220~240,50/60,1	220~240,50/60,1	220~240,50/60,1	220~240,50/60,1
	Cooling Power Input	kW	2.30	3.00	3.25	3.95	4.80			
	Heating Power Input	kW	2.40	3.20	3.41	4.05	4.80			
	Cooling Current	A	10.10	5.23	6.38	8.25	8.25			
	Heating Current	A	10.50	14.00	15.00	17.80	21.10			
	EER		3.48	3.33	3.78	3.54	3.33			
	COP		3.75	3.59	3.87	3.95	3.75			
	SEER		6.20	6.10	6.10	6.10	6.10			
	SCOP		4.20	4.10	4.10	4.00	4.00			
	Performance	Air Flow Volume	m³/h	4154	4154	7200	7200	7200		
Noise Level		dB(A)	56	56	57	57	≤61			
Piping Limite	Level difference between IDU and ODU	m	50	50	50	50	50			
	Level difference between IDU and IDU	m	10	10	15	15	15			
	Between the first brance and the Farthest IDUm	m	20	20	40	40	40			
	Total Pipe length	m	100	100	150	150	150			
Max. No. of Indoor Units		Unit	4	5	7	8	9			
Connection Ratio		%	50~130	50~130	50~130	50~130	50~130			
Dimension (WxDxH)	Net	mm	970×395×800	970×395×800	940×340×1320	940×340×1320	940×340×1320			
	Packing	mm	1090×480×855	1090×480×855	1090×480×855	1080×430×1440	1080×430×1440			
Weight	Net	kg	66	66	92	92	96			
	Packing	kg	71	71	102	102	106			
Refrigerant Type			R410a	R410a	R410a	R410a	R410a			
Pipe Diameter	Liquid Side	mm(inch)	9.52(3/8)	9.52(3/8)	9.52(3/8)	9.52(3/8)	9.52(3/8)			
	Gas Side	mm(inch)	15.88(5/8)	15.88(5/8)	15.88(5/8)	15.88(5/8)	19.05(3/4)			
Operation Range	Cooling	°C	-15~49	-15~49	-15~49	-15~49	-15~49			
Stuffing Quantity	Heating	°C	-15~27	-15~27	-15~27	-15~27	-15~27			
Stuffing Quantity	20/40/40H	Unit	48/96/194	48/96/194	48/96/194	27/55/55	27/55/55			

## GRV 6 SERIES | Three Phase

Model			Outdoor			GRV-H120/SR1DCS7	GRV-H140/SR1DCS7	GRV-H160/SR1DCS7	GRV-H120/SR1DCS7	GRV-H120/SR1DCS7
Capacity	Power Supply	V~,Hz,Ph	12.30	14.00	16.00	22.40	26.00			
	Cooling Power Input	kW	14.00	16.00	18.00	24.50	28.50			
Electric Data	Power Supply	V~,Hz,Ph	380~415,50/60,3	380~415,50/60,3	380~415,50/60,3	380~415,50/60,3	380~415,50/60,3	380~415,50/60,3	380~415,50/60,3	380~415,50/60,3
	Cooling Power Input	kW	3.25	4.11	4.66	6.80	7.60			
	Heating Power Input	kW	3.41	4.10	5.05	5.90	6.80			
	Cooling Current	A	5.09	6.44	7.30	11.10	12.40			
	Heating Current	A	5.34	6.42	7.91	9.60	11.10			
	EER		3.78	3.41	3.43	3.29	3.42			
	COP		4.11	3.90	3.56	4.15	4.19			
	SEER		6.10	6.10	6.10	5.90	5.50			
	SCOP		4.10	4.00	4.00	3.80	3.75			
	Performance	Air Flow Volume	m³/h	7200	7200	7200	10500	10500		
Noise Level		dB(A)	56	57	57	62	62			
Piping Limite	Level difference between IDU and ODU	m	50	50	50	50	50			
	Level difference between IDU and IDU	m	15	15	15	15	15			
	Between the first brance and the Farthest IDUm	m	40	40	40	40	40			
	Total Pipe length	m	150	150	150	250	250			
Max. No. of Indoor Units		Unit	7	8	9	13	15			
Connection Ratio		%	50~130	50~130	50~130	50~130	50~130			
Dimension (WxDxH)	Net	mm	940×340×1320	940×340×1320	940×340×1320	1120×400×1540	1120×400×1540			
	Packing	mm	1080×430×1440	1080×430×1440	1080×430×1440	1270×560×1710	1270×560×1710			
Weight	Net	kg	101	103	103	160	160			
	Packing	kg	111	113	113	175	175			
Refrigerant Type			R410a	R410a	R410a	R410a	R410a			
Pipe Diameter	Liquid Side	mm(inch)	9.52(3/8)	9.52(3/8)	9.52(3/8)	9.52(3/8)	9.52(3/8)			
	Gas Side	mm(inch)	15.88(5/8)	19.05(3/4)	19.05(3/4)	22.2(7/8)	22.2(7/8)			
Operation Range	Cooling	°C	-5~+55	-5~+55	-5~+55	-5~+55	-5~+55			
Stuffing Quantity	Heating	°C	-20~+24	-20~+24	-20~+24	-20~+24	-20~+24			
Stuffing Quantity	20/40/40H	Unit	27/55/55	27/55/55	27/55/55	17/37/37	17/37/37			

### Notes:

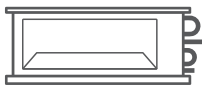
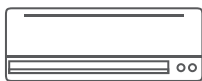
- 1.Cooling Capacity: Indoor temperature 27°C DB/ 19°C WB; Outdoor temperature:35°C DB/ 24°C WB.
- 2.Cooling Capacity (Tropical): Indoor temperature 27°C DB/19°C WB;Outdoor temperature:46.1°C DB.
- 3.Heating Capacity: Indoor temperature 20°C DB; Outdoor temperature: 7°C DB/ 6°C WB.
- 4.Piping Length: Equivalent piping length: 7.5m, level difference: 0m.
- 5.Anechoic chamber conversion value, measured in test room. During actual operation. These values are normally somewhat higher as a result of ambient c onditions.
- 6.The above designs and specifications are subject to change without prior notice. Final specifications please refer to technical specification provided by sales representative



# VRF

# INDOOR

# UNIT



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Remote Control



Hydrophilic Aluminum Fin



Fast Cooling/Heating



Low Ambient Cooling



Intelligent Defrosting



WIFI Control (optional)



Built-in Drain Pump



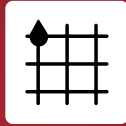
Digital Tube Display



Hydrophilic Aluminum Fin



Remote Control



Washable Filter



# GRV INDOOR UNIT 4 WAY CASSETTE

# Indoor Unit - 4 Way Cassette

## Specification-50Hz AC fan motor

Model Indoor			GRVCAH071/4R1B	GRVCAH080/4R1B	GRVCAH090/4R1B	GRVCA-H100/4R1B
Capacity	Cooling	kW	7.1	8.0	9.0	10.0
	Heating	kW	8.0	10.0	11.0	12.0
Electric Data	Power Supply	V-,Hz,Ph	220~240,50,1	220~240,50,1	220~240,50,1	220~240,50,1
	Rated Power	W	100	100	176	176
Performance	Air Flow Volume (Hi/Mid/Lcw)	m³/h	1250/1040/910	1250/1040/910	1500/1200/1050	1500/1200/1050
	Noise Level (Hi/Mid/Low)	dB(A)	38/34/30	38/34/30	41/37/34	41/37/34
"Dimension (WxDxH)"	Net(Body)	mm	835x835x250	835x835x250	835x835x250	835x835x250
	Packing(Body)	mm	910x910x310	910x910x310	910x910x310	910x910x310
	Net(Panel)	mm	950x950x55	950x950x55	950x950x55	950x950x55
	Packing(Panel)	mm	1000x1000x100	1000x1000x100	1000x1000x100	1000x1000x100
Weight	Net/Gross(Body)	kg	27/34	27/34	28/35	28/35
	Net/Gross(Panel)	kg	5/7	5/7	5/7	5/7
Refrigerant Type			R410a	R410a	R410a	R410a
Pipe Diameter	Liquid Side	mm(inch)	9.52(3/8)	9.52(3/8)	9.52(3/8)	9.52(3/8)
	Gas Side	mm(inch)	15.88(5/8)	15.88(5/8)	15.88(5/8)	15.88(5/8)
	Drainage	mm(inch)	DN20(R3/4)	DN20(R3/4)	DN20(R3/4)	DN20(R3/4)
Stuffing Quantity	40/40/20H	unit	78/168/184	78/168/184	78/168/184	78/168/184

Model Indoor			GRVCAH112/4R1B	GRVCA-H125/4R1B	GRVCA-H140/4R1B
Capacity	Cooling	kW	11.2	12.5	14.0
	Heating	kW	12.8	13.3	15.0
Electric Data	Power Supply	V-,Hz,Ph	220~240,50,1	220~240,50,1	220~240,50,1
	Rated Power	W	200	200	200
Performance	Air Flow Volume (Hi/Mid/Lcw)	m³/h	1800/1440/1260	1800/1440/1260	1800/1440/1260
	Noise Level (Hi/Mid/Low)	dB(A)	41/38/35	41/38/35	41/38/35
"Dimension (WxDxH)"	Net(Body)	mm	835x835x290	835x835x290	835x835x290
	Packing(Body)	mm	910x910x350	910x910x350	910x910x350
	Net(Panel)	mm	950x950x55	950x950x55	950x950x55
	Packing(Panel)	mm	1000x1000x100	1000x1000x100	1000x1000x100
Weight	Net/Gross(Body)	kg	30/37	30/37	30/37
	Net/Gross(Panel)	kg	5/7	5/7	5/7
Refrigerant Type			R410a	R410a	R410a
Pipe Diameter	Liquid Side	mm(inch)	9.52(3/8)	9.52(3/8)	9.52(3/8)
	Gas Side	mm(inch)	15.88(5/8)	15.88(5/8)	15.88(5/8)
	Drainage	mm(inch)	DN20(R3/4)	DN20(R3/4)	DN20(R3/4)
Stuffing Quantity	40/40/20H	unit	68/150/170	68/150/170	68/150/170



# GRV INDOOR UNIT MID ESP DUCT

# Indoor Unit - Mid ESP Duct

## Specification-50Hz AC fan motor

Model			Indoor			GRVMD-H100/4R1M	GRVMD-H112/4R1M	GRVMD-H125/4R1M
Capacity	Cooling	kW	10.0	11.2	12.5			
	Heating	kW	11.2	12.5	14.0			
Electric Data	Power Supply	V~,Hz,Ph	220~240,50,1	220~240,50,1	220~240,50,1			
	Rated Power	W	250	330	330			
Performance	Air Flow Volume(Hi/Mid/Lcw)	m³/h	1500/1000/800	2100/1500/1200	2100/1500/1200			
	Noise Level(Hi/Mid/Low)	dB(A)	44/41/39	45/42/40	45/42/40			
	External Static Pressure(ESP)	Pa	50/80	50/80	50/80			
"Dimension (WxDxH)"	Net	mm	1000x700x245	1400x700x245	1400x700x245			
	Packing	mm	1230x830x300	1630x830x300	1630x830x300			
Weight	Net/Gross	kg	32/38	43/50	43/50			
Pipe Diameter	Liquid Side	mm(inch)	9.52(3/8)	9.52(3/8)	9.52(3/8)			
	Gas Side	mm(inch)	15.88(5/8)	15.88(5/8)	15.88(5/8)			
	Drainage	mm(inch)	DN20(R3/4)	DN20(R3/4)	DN20(R3/4)			
Stuffing Quantity	40/40/20H	unit	77/160/180	70/150/168	70/150/168			

## Specification-50Hz AC fan motor

Model			Indoor			GRVMD-H140/4R1M	GRVMD-H150/4R1M
Capacity	Cooling	kW	14.0	15.0			
	Heating	kW	15.0	16.0			
Electric Data	Power Supply	V~,Hz,Ph	220~240,50,1	220~240,50,1			
	Rated Power	W	330	330			
Performance	Air Flow Volume(Hi/Mid/Lcw)	m³/h	2100/1500/1200	2200/1600/1300			
	Noise Level(Hi/Mid/Low)	dB(A)	45/42/40	46/42/40			
	External Static Pressure(ESP)	Pa	50/80	50/80			
"Dimension (WxDxH)"	Net	mm	1400x700x245	1400x700x245			
	Packing	mm	1630x830x300	1630x830x300			
Weight	Net/Gross	kg	43/50	43/50			
Pipe Diameter	Liquid Side	mm(inch)	9.52(3/8)	9.52(3/8)			
	Gas Side	mm(inch)	15.88(5/8)	15.88(5/8)			
	Drainage	mm(inch)	DN20(R3/4)	DN20(R3/4)			
Stuffing Quantity	40/40/20H	unit	70/150/168	70/150/168			

### Notes:

- 1.Cooling Capacity: Indoor temperature 27°C DB/ 19°C WB; Outdoor temperature:35°C DB/ 24°C WB.
- 2.Heating Capacity: Indoor temperature 20°C DB; Outdoor temperature:7°C DB/ 6°C WB.
- 3.Piping Length: Equivalent piping length: 7.5m, level difference: 0m.
- 4.Sound level is measured at 1.4m below the unit.
- 5.The above designs and specifications are subject to change without prior notice. Final specifications please refer to technical specification provided by sales representative.



# GRV INDOOR UNIT HIGH ESP DUCT



# Indoor Unit - High ESP Duct

## Specification-50Hz AC fan motor

Model			Indoor			
			ARVHD-H112/4R1A	ARVHD-H125/4R1A	ARVHD-H4/140R1A	ARVHD-H150/4R1A
Capacity	Cooling	kW	11.2	12.5	14.0	15.0
	Heating	kW	12.8	13.3	15.0	16.0
Electric Data	Power Supply	V~,Hz,Ph	220~240,50,1	220~240,50,1	220~240,50,1	220~240,50,1
	Rated Power	W	600	600	600	600
Performance	Air Flow Volume(Hi/Mid/Low)	m <sup>3</sup> /h	2000/1600/1400	2000/1600/1400	2000/1600/1400	2000/1600/1400
	Noise Level(Hi/Mid/Low)	dB(A)	60/57/51	60/57/51	60/57/51	60/57/51
	External Static Pressure(ESP)	Pa	196	196	196	196
"Dimension (WxDxH)"	Net	mm	1200x719x380	1200x719x380	1200x719x380	1200x719x380
	Packing	mm	1235x760x415	1235x760x415	1235x760x415	1235x760x415
Weight	Net/Gross	kg	56/59	56/59	56/59	56/59
Pipe Diameter	Liquid Side	mm(inch)	9.52(3/8)	9.52(3/8)	9.52(3/8)	9.52(3/8)
	Gas Side	mm(inch)	19.05(3/4)	19.05(3/4)	19.05(3/4)	19.05(3/4)
	Drainage	mm	DN20(R3/4)	DN20(R3/4)	DN20(R3/4)	DN20(R3/4)
Stuffing Quantity	20/40/40H	unit	65/140/168	65/140/168	65/140/168	65/140/168

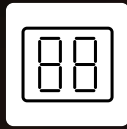
## Specification-50Hz AC fan motor

Model			Indoor	
			ARVHD-H220/NR1DC	ARVHD-H280/NR1DC
Capacity	Cooling	kW	22.4	28.0
	Heating	kW	25.0	31.5
Electric Data	Power Supply	V~,Hz,Ph	220~240,50/60,1	220~240,50/60,1
	Rated Power	W	1200	1200
Performance	Air Flow Volume(Hi/Mid/Low)	m <sup>3</sup> /h	4400	4400
	Noise Level(Hi/Mid/Low)	dB(A)	57	57
	External Static Pressure(ESP)	Pa	170(30-250)	170(30-250)
"Dimension (WxDxH)"	Net	mm	1388x715x480	1388x715x480
	Packing	mm	1540x810x610	1540x810x610
Weight	Net/Gross	kg	99/120	99/120
Pipe Diameter	Liquid Side	mm(inch)	12.7(1/2)	12.7(1/2)
	Gas Side	mm(inch)	22.2(7/8)	22.2(7/8)
	Drainage	mm(inch)	DN25	DN25
Stuffing Quantity	20/40/40H	unit	30/63/84	30/63/84

- Notes:
- Cooling Capacity: Indoor temperature 27°C DB/19°C WB; Outdoor temperature:35°C DB/ 24°C WB.
  - Heating Capacity: Indoor temperature 20°C DB; Outdoor temperature: 7°C DB/ 6°C WB.
  - Piping Length: Equivalent piping length: 7.5m, l level difference: 0m.
  - Sound level is measured at 1.4m below the unit.
  - The above designs and specifications are subject to change without prior notice. Final specifications please refer to technical specification provided by sales representative.



Remote Control



Digital Tube Display



Fast Cooling/Heating Technology



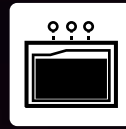
Intelligent Defrosting



Wired Control (optional)



WIFI Control (optional)



Central Control (optional)



# GRV INDOOR UNIT WALL MOUNTED

# Indoor Unit - Wall Mounted

## Specification- 50/60Hz DC fan motor (J type)

Model			Indoor			GRVWM-H022/NR1DJA	GRVWM-H028/NR1DJA	GRVWM-H036/NR1DJA
Capacity	Cooling	kW				2.2	2.8	3.6
	Heating	kW				2.5	3.2	4.3
Electric Data	Power Supply	V~,Hz,Ph				220~240,50/60,1	220~240,50/60,1	220~240,50/60,1
	Rated Power	W				14	14	14
Performance	Air Flow Volume(Hi/Mid/Low)	m³/h				650/600/580	650/600/580	650/600/580
	Noise Level(Hi/Mid/Lcw)	dB(A)				38/33/27	38/33/27	38/33/27
"Dimension (WxDxH)"	Net	mm				881x294x194	881x294x194	881x294x194
	Packing	mm				965x370x282	950x357x257	950x357x257
Weight	Net/Gross	kg				10/13	10/13	10/13
Pipe Diameter	Liquid Side	mm (inch)				6.35(1/4)	6.35(1/4)	6.35(1/4)
	Gas Side	mm (inch)				9.52(3/8)	9.52(3/8)	9.52(3/8)
	Drainage	mm (inch)				DN20(R3/4)	DN20(R3/4)	DN20(R3/4)
Stuffing Quantity	20/40/40H	unit				336/696/812	336/696/812	336/696/812

## Specification- 50/60Hz DC fan motor (J type)

Model			Indoor			GRVWM-H045/NR1DJA	GRVWM-H056/NR1DJA	GRVWM-H071/NR1DJA
Capacity	Cooling	kW				4.5	5.6	7.1
	Heating	kW				5.0	6.3	8.0
Electric Data	Power Supply	V~,Hz,Ph				220~240,50/60,1	220~240,50/60,1	220~240,50/60,1
	Rated Power	W				25	25	35
Performance	Air Flow Volume(Hi/Mid/Low)	m³/h				850/750/650	850/750/650	1200/950/800
	Noise Level(Hi/Mid/Lcw)	dB(A)				45/41/35	45/41/35	48/45/39
"Dimension (WxDxH)"	Net	mm				997x316x227	997x316x227	1132x330x232
	Packing	mm				1067x385x312	1067x385x312	1205x400x317
Weight	Net/Gross	kg				14/18	14/18	16/20
Pipe Diameter	Liquid Side	mm (inch)				6.35(1/4)	6.35(1/4)	6.35(1/4)
	Gas Side	mm (inch)				12.7(1/2)	12.7(1/2)	15.88(5/8)
	Drainage	mm (inch)				DN20(R3/4)	DN20(R3/4)	DN20(R3/4)
Stuffing Quantity	20/40/40H	unit				258/546/637	258/546/637	234/492/492

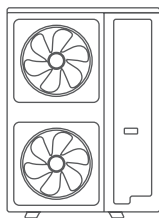
### Notes:

- 1.Cooling Capacity: Indoor temperature 27°C DB/19°C WB; Outdoor temperature:35°C DB/ 24°C WB.
- 2.Heating Capacity: Indoor temperature 20°C DB; Outdoor temperature: 7°C DB/ 6°C WB.
- 3.Piping Length: Equivalent piping length: 7.5m, l level difference: 0m.
- 4.Sound level is measured at 1.4m below the unit.
- 5.The above designs and specifications are subject to change without prior notice. Final specifications please refer to technical specification provided by sales representative.



# MINI

# CHILLER



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# مزایای مینی چیلر Galx°C®



دارای کمپرسور اینورتر و کاهش مصرف برق تا ۴۰٪

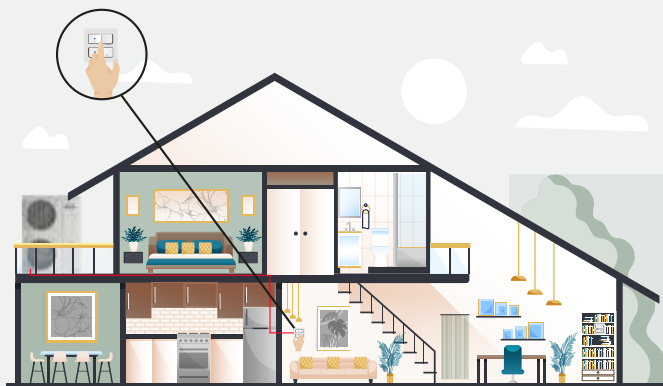


دارای مبدل حرارتی صفحه ای استینلس استیل



دارای اکسپنشن الکترونیکی ( افزایش  
راندمان و کاهش مصرف برق )

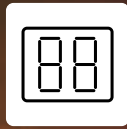
سطح صدای بسیار پایین در  
حد یک کولر گازی



دارای دیسپلی جداگانه لمسی جهت  
نصب داخل خانه و کنترل چیلر



Remote Control



Digital Tube Display



Fast Cooling/Heating Technology



Intelligent Defrosting



Wired Control (optional)



WIFI Control (optional)



Central Control (optional)



# MINI CHILLER



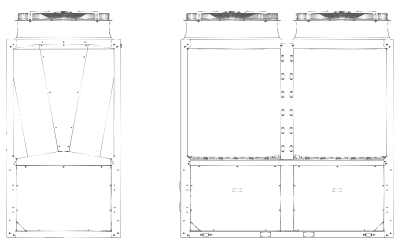
# MINI CHILLER



Model		Unit	GWAQ010ACVI	GWAQI010ACV	GWAQI018ACW	GWAQI030ACW
Capacity	Cooling	Btu/h	36000	36000	60000	100000
		kw	10.5	10.5	18	30
	Heating	Btu/h	38000	38000	66000	110000
		kw	11.08	11.08	19	-
Electrical	Power Supply	V.Hz.Ph	220/50/1	220/50/1	380/50/3	380/50/3
	Cooling Power Input	Kw	3.7	3.5	5.2	9.4
	Heating power Input	Kw	3.5	3.2	-	-
	Cooling Current	A	17.3	16	10.5	17
	Heating Current	A	16.6	15.5	-	-
Max Input Consumption		Kw	5.9	5.6	6.2	15.5
Max Input Current		A	25	23	11.5	28
Compressor	Type		Twin Rotary	DC inverter -Twin Rotary	Twin Rotary	Twin Rotary
	Quantity	Pieces	1	1	1	2
	Brand		Highly			
Air-side heat exchanger	Heat exchanger type		Fin heat exchanger			
	Fan type		Low noise axial			
	Fan quantity	Pieces	1	1	2	2
	Air flow volume	M³/h	3850	4000	6800	14000
	Fan motor input	Kw	0.85	0.88	0.69	0.85
Water side3 heat exchanger	Type		Stainless steel plate heat exchanger			
	Water resistance	Kpa	45	45	58	58
	Water flow volume	M³/h	1.7	1.7	2.8	5.2
	Max. pressure	Mpa	5	5	5	5
	Water pipe connection type		Flexible joint			
Dimension (W.D.H)		mm	1120x430x775	1120x430x775	1150x540x1450	1245x485x1630
Weight		kg	106	106	156	180
Refrigerant	Refrigerant	Kg	R410a	R410a	R410a	R410a
	Refrigerant control method		Electronic expansion valve			
Inlet/outlet Water Pipe		mm	25	25	32	32
Noise		dB(A)	55	55	55	58



# AIR CHILLER



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# SCROLL CHILLER

# SCROLL CHILLER



- عملکرد جایگزین
- $COP \geq 3.03$
- استفاده از بهترین تجهیزات
- مبدل حرارتی پوسته ولوله
- کمپرسور اسکرال با راندمان بالا
- وجود دو مدار تبرید در یک سیستم
- قابلیت اتصال 16 دستگاه به یکدیگر

- راه اندازی پشتیبان
- راه اندازی سریع
- ابعاد مناسب
- کارکرد بی صدا
- مصرف برق کم
- مبرد R410a
- طراحی فشرده

Model		Unit	GWYQ065GXR	GWYQ140GXR	GWYQ240GXR	GWYQ420GXR	GWYQ560GXR
Capacity	Cooling	Btu/h	222000	480000	96000	1440000	1920000
		kw	65	140	280	420	560
	Heating	Btu/h	242000	490000	980000	1470000	196000
		kw	71	150	300	450	600
Electrical	Power Supply	V.Hz.Ph	380.50.3	380.50.3	380.50.3	380.50.3	380.50.3
	Cooling Power Input	Kw	18.9	41.2	82.4	123.6	164.8
	Heating power Input	Kw	21	44.4	88.8	133.2	177.6
	Cooling Current	A	35	76	152	228	304
	Heating Current	A	39	82	164	246	328
Max Input Consumption		Kw	23	50	100	150	200
Max Input Current		A	43	94	188	282	376
Compressor	Type		Rotary Compressor	Scroll Compressor	Scroll Compressor	Scroll Compressor	Scroll Compressor
	Quantity	Pieces	4	2	4	6	8
	Brand		Highly	Danfoss	Danfoss	Danfoss	
Air-side heat exchanger	Heat exchanger type		High Efficiency Blue-Fin and Tube				
	Fan type		Direct Propeller				
	Fan quantity	Pieces	2	2	4	6	8
	Air flow volume	M <sup>3</sup> /h	28000	56000	112000	168000	224000
	Fan motor input	Kw	1.1	5.1	10.2	7.8	10.4
Water side3 heat exchanger	Type		Shell and Tube High Efficiency Heat Exchanger				
	Water resistance	Kpa	45	40	40	40	40
	Water flow volume	M <sup>3</sup> /h	11.2	22	44	66	88
	Max. pressure	Mpa	5	5	5	5	5
	Water pipe connection type		Flexible Joint				
Dimension (W.D.H)		mm	2010x1010x2000	2270x1300x2250	2270x2600x2250	2270x3900x2250	2270x5200x2250
Weight		kg	635	1250	2500	3750	5000
Refrigerant	Refrigerant	Kg	R410a	R410a	R410a	R410a	R410a
	Refrigerant control method		Electronic Expansion Valve				
Inlet/outlet Water Pipe		mm	40	50	50	50	50
Noise		dB(A)	60	65	65	65	65



# SCREW CHILLER

## SCREW CHILLER

- وجود دو مدار تبرید در یک سیستم
- طراحی فشرده
- عملکرد جایگزین
- مبرد R134a
- $COP \geq 302$
- اتصال 16 دستگاه به یکدیگر
- استفاده از بهترین تجهیزات
- تنوع ظرفیت
- قابلیت مدولار
- مدار برودتی مجزا
- ابعاد مناسب
- کارکرد بی صدا
- راه اندازی پشتیبان
- مصرف برق کم
- مبدل حرارتی با راندمان بالا



دارارای کمپرسور Bitzer



**ebmpapst**  
**ZIEHL-ABEGG** 

مجهز به فن Ebmpapst و ZIEHL-ABEGG



دارای اکسپنشن الکترونیکی ( افزایش راندمان و کاهش مصرف برق )

# DOUBLE COMPRESSOR

Model		GWAD-D-HS560	GWAD-D-HS642	GWAD-D-HS712	GWAD-D-HS916	GWAD-D-HS992	GWAD-D-HS1142	
Cooling capacity	KW	560	642	712	916	992	1124	
Cooling power	KW	181	215	245	295	325	364	
Working current	A	358	428	467	579	646	720	
Heating capacity	KW	560	656	736	930	1006	1166	
Heating power	KW	177	185	240	290	320	357	
Working current	A	323	387	422	526	586	708	
Max. running current	A	445	530	579	713	796	904	
Power supply		380V / 3PH / 50HZ	380V / 3PH / 50HZ	380V / 3PH / 50HZ	380V / 3PH / 50HZ	380V / 3PH / 50HZ	380V / 3PH / 50HZ	
Energy control		25% ~ 100%	25% ~ 100%	25% ~ 100%	25% ~ 100%	25% ~ 100%	25% ~ 100%	
Compressor	Type	Semi-hermetic screw type	Semi-hermetic screw type	Semi-hermetic screw type	Semi-hermetic screw type	Semi-hermetic screw type	Semi-hermetic screw type	
	Qty.	2	2	2	2	2	2	
	Start mode	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	
	Refrigerant	Type	R134a	R134a	R134a	R134a	R134a	R134a
		Charge (kg)	160	190	220	270	300	340
	Control	EXV	EXV	EXV	EXV	EXV	EXV	
Evaporator	Type	Shell&Tube	Shell&Tube	Shell&Tube	Shell&Tube	Shell&Tube	Shell&Tube	
	Pressure drop	KPa	70	70	70	70	70	
	Pipe connection size		150	150	150	150	200	
	Water flow	m³/h	96	110	122	158	171	193
Condenser	Type	Inner grooved copper tube with hydrophilic aluminum fins	Inner grooved copper tube with hydrophilic aluminum fins	Inner grooved copper tube with hydrophilic aluminum fins	Inner grooved copper tube with hydrophilic aluminum fins	Inner grooved copper tube with hydrophilic aluminum fins	Inner grooved copper tube with hydrophilic aluminum fins	
	Condenser fan		4	4	8	8	8	8
Heat recovery I (optional)	Type	Shell&Tube	Shell&Tube	Shell&Tube	Shell&Tube	Shell&Tube	Shell&Tube	
	Capacity		30%	30%	30%	30%	30%	
	P.D	Kpa	70	70	70	70	70	
	Water pipe	DN	80	100	100	100	125	125
	Hot water flow	m³/h	38	43	48	62	67	75
Heat recovery II (optional)	Type	Shell&Tube	Shell&Tube	Shell&Tube	Shell&Tube	Shell&Tube	Shell&Tube	
	Capacity		100%	100%	100%	100%	100%	
	P.D	Kpa	70	70	70	70	70	
	Water pipe	DN	100	100	100	125	125	125
	Hot water flow	m³/h	76	87	96	123	133	151
Dimension (LxWxH)	mm	6186x2250x2240	8006x2250x2240	8006x2250x2240	8006x2250x2240	9826x2250x2240	9826x2250x2240	
Net weight	kg	6000	6600	9000	10000	11500	12500	
working weight	kg	6600	7200	9600	10600	12100	13100	
Noise level	dB(A)	79	79	79	79	79	79	

1. Standard cooling work condition: Ambient Temp: DB 35 , WB 24 ; cooling water inlet 12 , outlet 7 .

2. Main components: Compressor: Bitzer; EXV: Danfoss; Breaker: Schneider; Thermal relay: Schneider; Controller: Siemens; Fan: Ruibo/Kemao



# SINGLE COMPRESSOR

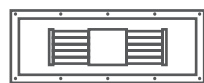
Model		GWAD-D-HS252	GWAD-D-HS280	GWAD-D-HS321	GWAD-D-HS356	GWAD-D-HS458	GWAD-D-HS496	GWAD-D-HS562	
Cooling capacity	KW	252	280	321	356	458	496	562	
Cooling power	KW	82	90	108	122	148	163	182	
Working current	A	162	179	214	234	290	323	360	
Heating capacity	KW	246	280	328	368	465	503	583	
Heating power	KW	80	89	92	120	145	160	178	
Working current	A	147	162	194	211	263	293	354	
Max. running current	A	199	222	265	290	361	398	452	
Power supply		380V / 3PH / 50HZ	380V / 3PH / 50HZ	380V / 3PH / 50HZ	380V / 3PH / 50HZ	380V / 3PH / 50HZ	380V / 3PH / 50HZ	380V / 3PH / 50HZ	
Energy control		25% ~ 100%	25% ~ 100%	25% ~ 100%	25% ~ 100%	25% ~ 100%	25% ~ 100%	25% ~ 100%	
Compressor	Type	Semi-hermetic screw type	Semi-hermetic screw type	Semi-hermetic screw type	Semi-hermetic screw type	Semi-hermetic screw type	Semi-hermetic screw type	Semi-hermetic screw type	
	Qty.	1	1	1	1	1	1	1	
	Start mode	YΔ	YΔ	YΔ	YΔ	YΔ	YΔ	YΔ	
	Refrigerant	Type	R134a	R134a	R134a	R134a	R134a	R134a	R134a
		Charge (kg)	70	80	95	110	135	150	170
	Control	EXV	EXV	EXV	EXV	EXV	EXV	EXV	
Evaporator	Type	Shell&Tube	Shell&Tube	Shell&Tube	Shell&Tube	Shell&Tube	Shell&Tube	Shell&Tube	
	Pressure drop	KPa	70	70	70	70	70	70	
	Pipe connection size	100	100	100	125	125	125	150	
	Water flow	m³/h	43	48	55	61	79	85	97
Condenser	Type	Inner grooved copper tube with hydrophilic aluminum fins	Inner grooved copper tube with hydrophilic aluminum fins	Inner grooved copper tube with hydrophilic aluminum fins	Inner grooved copper tube with hydrophilic aluminum fins	Inner grooved copper tube with hydrophilic aluminum fins	Inner grooved copper tube with hydrophilic aluminum fins	Inner grooved copper tube with hydrophilic aluminum fins	
	Condenser fan	6	6	8	10	10	12	12	
Heat recovery I (optional)	Type	Shell&Tube	Shell&Tube	Shell&Tube	Shell&Tube	Shell&Tube	Shell&Tube	Shell&Tube	
	Capacity	30%	30%	30%	30%	30%	30%	30%	
	P.D	Kpa	70	70	70	70	70	70	
	Water pipe	DN	100	100	100	125	125	125	150
	Hot water flow	m³/h	17	19	22	24	31	33	38
Heat recovery II (optional)	Type	Shell&Tube	Shell&Tube	Shell&Tube	Shell&Tube	Shell&Tube	Shell&Tube	Shell&Tube	
	Capacity	100%	100%	100%	100%	100%	100%	100%	
	P.D	Kpa	70	70	70	70	70	70	
	Water pipe	DN	80	100	100	100	125	125	125
	Hot water flow	m³/h	34	38	43	48	62	67	75
Dimension (LxWxH)	mm	3190x2250x2240	3190x2250x2240	4100x2250x2240	4100x2250x2240	4100x2250x2240	5010x2250x2240	5010x2250x2240	
Net weight	kg	2500	3000	3500	4700	5800	6000	6500	
working weight	kg	3100	3500	4000	5100	6200	6600	7100	
Noise level	dB(A)	79	79	79	79	79	79	79	

1. Standard cooling work condition: Ambient Temp: DB 35 , WB 24 ; cooling water inlet 12 , outlet 7 .

2. Main components: Compressor: Bitzer; EXV: Danfoss; Breaker: Schneider; Thermal relay: Schneider; Controller: Siemens; Fan: Ruibo/Kemao



# FANCOIL UNIT



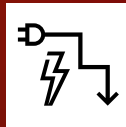
PAGE: 42-51



Embedded  
Wi-Fi



Smart  
Diagnosis



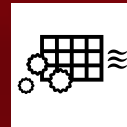
Active  
Energy  
Control



Energy  
Display



Plasmaster<sup>PLUS</sup>  
Ionizer



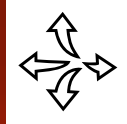
Dual  
Protection



Auto  
Cleaning



Jet Cool



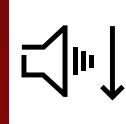
4 Way  
Swing



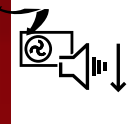
Fast  
Heating



Comfort  
Air



Low Noise  
19dB  
(9k,12k)



Silence  
Mode



Quick  
& Easy  
Installation



# CEILING CONCEALED FAN COIL SPECIFICATIONS

## HORIZONTAL CONCEALED FAN COIL

- پلنیوم برگشت هوا
- شیر هواگیری دستی
- انتخاب جهت اتصال لوله‌ها به دستگاه
- دارای فیلتر هوای قابل شستشو
- ارتفاع کم
- سینی درین گالوانیزه
- کوئل سه ردیفه

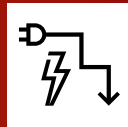


### Model

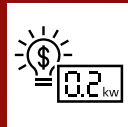
Model			GFC-200-2SM-3R	GFC-300-2SM-3R	GFC-400-2SM-3R	GFC-500-2SM-3R	GFC-600-2SM-3R	GFC-800-2SM-3R	GFC-1000-2SM-3R	GFC-1200-2SM-3R	GFC-1400-2SM-3R
Air flow (m <sup>3</sup> /h)	H	m <sup>3</sup> /h	351	538	691	850	1025	1363	1712	2051	2380
	M		263	404	518	638	769	1022	1284	1538	1785
	L		193	296	380	468	564	750	942	1128	1309
Cooling	H	W	1867	2862	3676	4521	5452	7250	9106	10910	12660
	M		1494	2289	2940	3617	4362	5800	7285	8728	10128
	L		1214	1860	2389	2939	3544	4713	5919	7091	8229
Heating (W)	H	W	2801	4293	5513	6782	8178	10875	13660	16364	18989
	M		2240	3434	4411	5426	6543	8700	10928	13091	15191
	L		1820	2790	3584	4408	5316	7069	8879	10637	12343
Fan	Type		Double inlet forward centrifugal fan								
	Qty		1	2	2	2	2	3		4	4
	Fan blower dia.mm		145	145	145	145	145	145	145	145	145
Motor	Power supply		220V-50Hz/60Hz								
	Power input (W)	30Pa	39	57	72	77	107	139	159	211	251
Coil	Structure		Copper+aluminum fins (Open window)								
	Max working pressure		1.6Mpa								
	Rows		3	3	3	3	3	3	3	3	3
Pipe	Water pipe		DN20								
	Condensate pipe		DN20								
Water flow		l/h	321	492	632	778	938	1247	1566	1876	2177
Water resistance		kPa	25	26	30	28	30	38	38	45	50
Noise	30Pa	dB(A)	39	41	43	46	47	48	50	52	54
Weight		kg	11.8	14.2	15.9	17.3	18.8	25.9	29.1	33.1	37.5



Smart  
Diagnosis



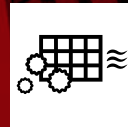
Active  
Energy  
Control



Energy  
Display



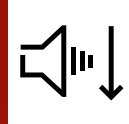
Plasmaster  
Ionizer<sup>PLUS</sup>



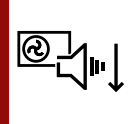
Dual  
Protection



Fast  
Heating



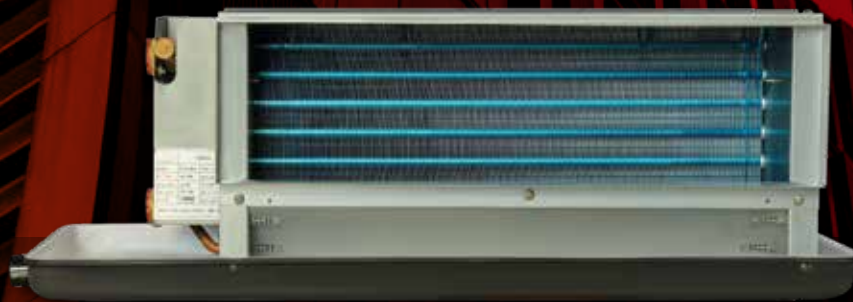
Low Noise  
19dB  
(9k,12k)



Silence  
Mode

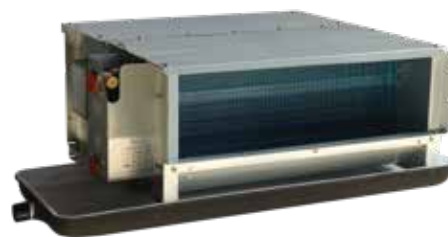


Quick  
& Easy  
Installation



# HIGH ESP DUCTED FAN COIL – 100 Pa

## HIGH ESP DUCTED FAN COIL



- شیر هواگیری دستی
- ارتفاع مناسب
- فیلتر قابل شستشو
- غلبه بر فشار استاتیکی تا 100 پاسکال
- پلنیوم برگشت هوا
- انتخاب جهت اتصال لوله‌ها به دستگاه
- کویل سه ردیفه
- دارای پلنیوم

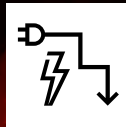
Model			GFCH800	GFCH1000	GFCH1200	GFCH1400	GFCH1600	GFCH1800	GFCH2000
Rated air volume	H	M <sup>3</sup> /h	1360	1700	2040	2380	2720	3060	3400
	M		1020	1275	1530	1785	2040	2295	2550
	L		748	935	1122	1309	1496	1683	1870
Rated cooling capacity	H	W	6800	8500	10200	11900	13600	15300	17000
	M		5440	6800	8160	9520	10880	12240	13600
	L		4420	5525	6630	7735	8840	9945	11050
Rated heating capacity	H	W	10200	12750	15300	17850	20400	22950	25500
	M		8160	10200	12240	14280	16320	18360	20400
	L		6630	8288	9945	11603	13260	14918	16575
Input power		W	286	337	410	580	657	730	837
Noise dB		A	53	55	57	58	60	61	61
Water volume		l/h	1170	1462	1754	2047	2339	2632	2924
Water pressure loss		kPa	23.5	36	35	42	31	39	43
External static pressure		Pa	100	100	100	100	100	100	100
Motor	Type	E class insulation, permanent capacitor, 3 speed fan							
	Qty	1	1	1	1	1	1	2	
Fan	Type	Double inlet, forward curve, multi blades, centrifugal fan							
	Type	1	2	2	2	2	2	3	
Water connection pipe			GI"	GI"	GI"	GI"	GI"	GI"	GI"
Condensed water pipe			GI" (DN25)						
Max working pressure			1.6MPa						
Power supply			AC 220V/50Hz						
Remarks			1. The performance data is according to the test result of horizontal concealed type without plenum. 2. Cooling condition: inlet air DBT 27°C WBT 19.5°C inlet water temp. 7°C temp. Difference 5°C. 3. Heating condition: inlet air DBT 21°C inlet water temp. 60°C.						



Embedded  
Wi-Fi



Smart  
Diagnosis



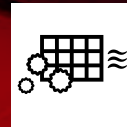
Active  
Energy  
Control



Energy  
Display



Plasmaster  
Ionizer<sup>PLUS</sup>



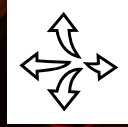
Dual  
Protection



Auto  
Cleaning



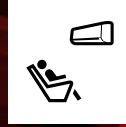
Jet Cool



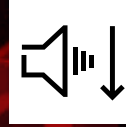
4 Way  
Swing



Fast  
Heating



Comfort  
Air



Low Noise  
19dB  
(9k,12k)



Silence  
Mode



Quick  
& Easy  
Installation



# WALL MOUNTED FAN COIL



## WALL MOUNTED FAN COIL



- قابلیت اتصال به هوای تازه
- دارای ریموت کنترل بی سیم
- دارای پمپ درین با دهانه پمپاز
- فن گریز از مرکز
- کم صدا
- تعمیر و نگهداری آسان
- قابلیت عیب یابی به صورت کدینگ
- فن سه سرعت
- دارای تایمر روشن و خاموش
- دارای Auto start
- فیلتر قابل شستشو

Model			GWH2-AM02	GWH2-AM03	GWH2-AM04	GWH2-AM05	GWH2-AM06	GWH2-AM08
H/M/L Speed	Air Volume	CFM	100/150/200	200/300/400	150/225/300	400/600/800	300/450/600	250/375/500
		m <sup>3</sup> /h	170/255/340	340/510/680	255/383/510	680/1020/1360	510/765/1020	425/638/850
H/M/L Speed	Cooling Capacity	W	1175/1537/1808	2352/3075/3618	1763/2305/2712	4687/6129/7210	3514/4595/5406	2934/3837/4514
H/M/L Speed	Heating Capacity	W	1761/2303/2709	3522/4605/5418	2646/3460/4070	4025/9186/10807	5275/6989/8155	4399/5752/6767
Noise Level		dB(A)	≤42	≤43	≤42	≤49	≤47	≤47
Fan Motor	Fan Quantity	W	1	1	1	1	1	1
	Motor Quantity		1	1	1	1	1	1
	Power Input		52	62	52	134	96	76
Water Flow Volume		kg/h	350	800	610	1390	1080	950
Hydraulic Resistance		kPa	30	30	30	40	40	30
Max.Working pressure		MPa	1.6	1.6	1.6	1.6	1.6	1.6
Dimension (WxDxH)	Net	mm	198×300×850	198×300×850	198×300×850	1100×330×235	970×315×235	970×315×235
	Packing	mm	282×370×920	282×370×920	282×370×920	1140×390×300	1010×380×300	1010×380×300
Net/Gross Weight		Kg	11/12.5	12.6/14.5	11/12.5	20/23	16/18	15/17
Inlet/Outlet Water Pipe			Rc12 (DN15)					
Drain Pipe			R12 (DN15)					

Note:

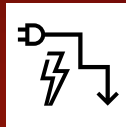
1. Cooling capacity test conditions: Air inlet Temp. : 27°C DB/19.5 °C WB, Water inlet/outlet Temp. : 7°C /12 °C ;
2. Heating capacity test conditions: Air inlet Temp. : 21 °C DB, Water inlet Temp. : 60°C ;
3. External Static Pressure :50Pa is optional;
4. Noise level is tested in full-anechoic room.



Embedded  
Wi-Fi



Smart  
Diagnosis



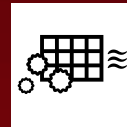
Active  
Energy  
Control



Energy  
Display



Plasmaster  
Ionizer<sup>PLUS</sup>



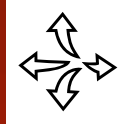
Dual  
Protection



Auto  
Cleaning



Jet Cool



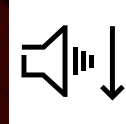
4 Way  
Swing



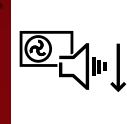
Fast  
Heating



Comfort  
Air



Low Noise  
19dB  
(9k,12k)



Silence  
Mode



Quick  
& Easy  
Installation



# 4 WAY CASSETTE FAN COIL

## 4 WAY CASSETTE FAN COIL



- قابلیت اتصال به هوای تازه
- دارای ریموت کنترل بی سیم
- دارای پمپ درین با دهانه پمپاز
- فن گریز از مرکز
- کم صدا
- تعمیر و نگهداری آسان
- قابلیت عیب یابی به صورت کدینگ
- فن سه سرعت
- دارای تایمر روشن و خاموش
- دارای Auto start
- فیلتر قابل شستشو

### Model

Model			GHC2-AM06	GHC2-AM05	GHC2-AM04	GHC2-AM03	GHC2-AM14	GHC2-AM12	GHC2-AM010	GHC2-AM08
Air Volume(H/M/L)	CFM		300/450/600	353/429/500	282/341/400	212/259/300	700/1050/1400	600/900/1200	500/750/1000	400/600/800
	m <sup>3</sup> /h		510/765/1020	600/730/850	480/580/680	360/440/510	1190/1785/2380	1020/9189/2040	850/1275/1700	680/1020/1360
Cooling Capacity	H/M/L Speed	W	3514/4595/5406	3060/3600/4500	2810/3350/3900	2380/2840/3300	8197/10719/12600	7027/9189/10810	5862/7665/9018	4687/6129/7210
	H/M/L Speed	W	5275/6898/8115	5200/5940/6750	4500/5100/5800	3700/4200/4800	12286/16066/18900	10553/13774/16205	8783/11485/13512	7025/9186/10807
Noise Level		dB(A)	≤45	≤45	≤42	≤39	≤52	≤50	≤48	≤46
Fan Motor	Fan Quantity		1	1	1	1	1	1	1	1
	Motor Quantity	W	1	1	1	1	1	1	1	1
	Power Input	W	76	62	55	225	189	165	134	
Water Flow Volume		m <sup>3</sup> /h	1.15	0.94	0.70	0.62	2.25	1.82	1.68	1.4
Hydraulic Resistance		kPa	31	29	27	26	42	39	36	34
Max.Working pressure		MPa	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Dimension (WxDxH)	Net (Body)	mm	250×835×835	260×570×570	260×570×570	260×570×570	290×835×835	290×835×835	290×835×835	250×835×835
	Packing (Body)	mm	310×910×910	295×655×655	295×655×655	295×655×655	350×910×910	350×910×910	350×910×910	310×910×910
	Net (Panel)	mm	55×950×950	55×650×650	55×650×650	55×650×650	55×950×950	55×950×950	55×950×950	55×950×950
	Packing (Panel)	mm	100×1000×1000	80×710×710	80×710×710	80×710×710	100×1000×1000	100×1000×1000	100×1000×1000	100×1000×1000
Weight	Net/Gross (Body) kg		28/24.5	20.3/18	20.3/18	20.3/18	32.5/28	32.5/28	31/26.5	29/25.5
	Net/Gross (Panel) kg		7.8/5.3	3.7/2.2	3.7/2.2	3.7/2.2	7.8/5.3	7.8/5.3	7.8/5.3	7.8/5.3
Inlet/Outlet Water Pipe			Rc4/3"(DN20)							
Drain Pipe			R4/3"(DN20)							
Stuffing Quantity(40/40/20H)			182/170/79	414/362/181	414/362/181	414/362/181	172/156/74	172/156/74	172/156/74	182/170/79

Note:

1. Cooling capacity test conditions: Air inlet Temp. : °27C DB/19.5 °C WB, Water inlet/outlet Temp. : °7C /12 °C ;

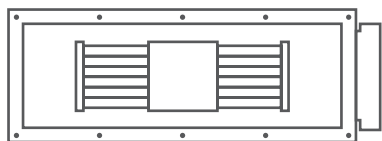
2. Heating capacity test conditions: Air inlet Temp. : 21 °C DB, Water inlet Temp. : °60C ;

3. External Static Pressure :50Pa is optional;

4. Noise level is tested in full-anechoic room.

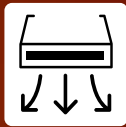


# DUCT SPLIT UNIT

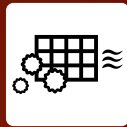


PAGE: 52-57





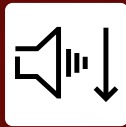
**E.S.P.  
(External  
Static  
Pressure)  
Control**



**Dual  
Protection**



**Quick  
& Easy  
Installation**



**Low noise**



**Flexible  
Installation**



**Wired  
Control  
(optional)**



**Child Lock  
Function**



# **DUCT SPLIT**

## **T3 | R410A INVERTER**

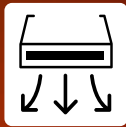
## DUCT SPLIT | T3 | R410A INVERTER



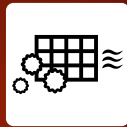
- رنج ظرفیتی ۱،۵ تن الی ۵ تن
- قابلیت تغییر در ریجه مکش هوا
- مجهز به فیلتر جهت افزایش کیفیت هوا
- قابلیت نصب کانال هوای برگشت و هوای تازه
- مجهز به ترموستات دیواری با صفحه نمایش لمسی
- ابعاد مناسب جهت نصب در فضای سقف کاذب
- رنج کامل دمایی برای اقلیم‌های مختلف از ۱۵- تا ۴۸+ درجه سانتیگراد

### Model

		ICDS 1.5-56	ICDS 2-78	ICDS 2.5-87	ICDS 3-1112	ICDS 4-1415	ICDS 5-1819
منبع برق	V,Hz,Ø	220-240,50,1	220-240,50,1	220-240,50,1	220-240,50,1	380-415,50,3	380-415,50,3
گرمايش/سرمايش   ظرفیت	Btu/h	18000/19000	24000/27000	30000/33000	36000/37500	48000/51000	60000/63000
مصرف برق   گرمايش/سرمايش	kW	1.56/1.53	2.15/2.15	2.71/2.57	3.08/3.01	4.29/4.03	5.45/5.06
شدت جریان   گرمايش/سرمايش	A	7.09/6.95	9.77/9.77	12.31/11.68	14/13.68	8.14/7.45	10.35/9.6
EER/COP   ضریب عملکرد	W/W	3.35/3.61	3.25/3.65	3.32/3.74	3.4/3.63	3.26/3.69	3.21/3.63
گردش هوا	m³/h	1000/800/680	1500/1250/1050	1500/1250/1050	1500/1250/1050	1900/1600/1400	2030/1880/1670
سطح صدا	db(A)	43/41/40	46/44/42	46/44/42	46/44/42	53/50/44	53/50/44
فشار استاتیکی   Standard/Range	Pa	0-160	0-160	0-160	0-160	0-120	0-120
ابعاد یونیت داخلی (WxDxH)	mm	1000x700x245	1000x700x245	1000x700x245	1000x700x245	1400x700x245	1400x700x245
ابعاد یونیت خارجی (WxDxH)	mm	785x300x555	825x310x655	900x350x700	900x350x700	940x370x1325	940x370x1325
وزن ( یونیت خارجی/یونیت داخلی )	Kg	29/29	32/41	32/43	32/50	47/90	47/90
درین / گاز / مایع   قطر لوله کشی	mm	6.35/12.7/3/4"	9.52/15.88/3/4"	9.52/15.88/3/4"	9.52/15.88/3/4"	9.52/19.05/3/4"	9.52/19.05/3/4"
حداکثر ارتفاع لوله کشی حداکثر طول لوله کشی	m	15/30	15/30	15/30	15/30	30/50	30/50
رنج دهائی کاربرد	°C	-15 to +48					
کابل برق تغذیه به یونیت داخلی	mm²	3x1.5	3x1.5	3x1.5	3x1.5	3x1.5	3x1.5
کابل برق تغذیه به یونیت خارجی	mm²	3x2.5	3x2.5	3x4	3x4	5x2.5	5x2.5
کابل ارتباطی ( شیلد دار )	mm²	3x1	3x1	3x1	3x1	3x1	3x1



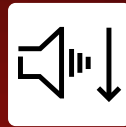
**E.S.P.  
(External  
Static  
Pressure)  
Control**



**Dual  
Protection**



**Quick  
& Easy  
Installation**



**Low noise**



**Flexible  
Installation**



**Wired  
Control  
(optional)**



**Child Lock  
Function**



# **DUCT SPLIT**

## **T3 | ON/OFF R410A**



## DUCT SPLIT | T1 | ON/OFF R410A



- رنج ظرفیتی ۵ تن الی ۵ تن
- قابلیت تغییر دریچه مکش هوا
- مجهز به فیلتر جهت افزایش کیفیت هوا
- قابلیت نصب کانال هوای برگشت و هوای تازه
- مجهز به ترموستات دیواری با صفحه نمایش لمسی
- ابعاد مناسب جهت نصب در فضای سقف کاذب
- رنج کامل دمایی برای اقلیم‌های مختلف از ۱۵- تا ۴۹+ درجه سانتیگراد

Model		CCDS 5	CCDS 7	CCDS 11	CCDS 14	CCDS 18
منبع برق	V,Hz,Ø	220-240,50,1	220-240,50,1	220-240,50,1	380-415,50,3	380-415,50,3
گرمايش/سرمايش   ظرفيت	Btu/h	18000/19700	24000/27200	36000/40000	48000/52000	60000/63000
مصرف برق   گرمايش/سرمايش	kW	1.71/1.68	2.35/2.29	3.47/3.39	4.65/4.4	5.21/5.38
شدت جريان   گرمايش/سرمايش	A	7.77/7.63	10.68/10.4	15.77/15.41	8.83/8.35	9.9/10.21
EER/COP   ضريب عملکرد	W/W	3.06/3.42	3.01/3.46	3.02/3.44	3.01/3.44	3.08/3.41
گردش هوا	m³/h	613/513/433/388	1400/1300/1000	1600/1400/1200	2200/2000/1800	2200/2000/1800
سطح صدا	db(A)	39/35/32	46/44/42	50/47/41	50/46/44	50/47/45
فشار استاتيكي   Standard/Range	Pa	50	50	80	80	80
ابعاد يونيت داخلي (WxDxH)	mm	1000x460x200	1000x700x245	1000x700x245	1400x700x245	1400x700x245
ابعاد يونيت خارجي (WxDxH)	mm	800x315x545	825x310x655	970x395x805	940x370x1325	940x370x1325
وزن (يونيت خارجي/يونيت داخلي)	Kg	32/36	33/48	35/65	45/95	50/99
درين / گاز / مايع   قطر لوله كشي	mm	6.35/12.7/3.4"	9.52/15.88/3.4"	9.52/15.88/3.4"	9.52/19.05/ 3.4"	9.52/19.05/3.4"
حداكثر ارتفاع لوله كشي حداكثر طول لوله كشي	m	15/20	15/20	20/30	30/50	30/50
رنج دمائي كاربرد	°C	-15 to +49				
كابل برق تغذيه به يونيت داخلي	mm²	3x1.5	3x1.5	3x1.5	3x1.5	3x1.5
كابل برق تغذيه به يونيت خارجي	mm²	3x2.5	3x2.5	3x4	5x4	5x4
كابل ارتباطي (شيلد دار)	mm²	3x1.5	3x1.5	3x1.5	3x1.5	3x1.5





Galx°C<sup>®</sup>





# AIR COOLED SPLIT UNIT





## content

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