

# AIR-CONDITIONING

## SPLIT DUCTED SYSTEMS



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# DUAL INVERTER

\*HIGH STATIC, VARIABLE REFRIGERANT FLOW, VARIABLE INDOOR AIRFLOW

SYSTEM MODEL		HS-IV-10	HS-IV-14	HS-IV-17
INDOOR UNIT MODEL		HS-VAV-10	HS-VAV-14	HS-VAV-17
OUTDOOR UNIT MODEL		HS-INV-10	HS-INV-14	HS-INV-17
Nett Cooling Capacity (kW)		10.4 (1.8~12)	13.5 (1.8~15.5)	16.8 (1.8~19)
Nett Heating Capacity (kW)		11.2 (1.8~14)	16 (1.8~19.5)	17.7 (1.8~22)
Air Flow High (l/s)		880	916	1025
Air Flow Low (l/s)		200	200	200
Supply Pressure Range (Pa)		30 ~ 150	30 ~ 150	30 ~ 150
ELECTRICAL DATA		ONE PHASE	ONE PHASE	ONE PHASE
Power Supply		240 Volts ~ 1 Phase ~ 50 Hz	240 Volts ~ 1 Phase ~ 50 Hz	240 Volts ~ 1 Phase ~ 50 Hz
Recommended circuit breaker size (A)		25	32	32
Electrical Input Cooling (kW)		3.25	4.22	5.3
AEER		3.16	3.17	3.15
Electrical Input Heating (kW)		3.15	4.5	5.2
ACOP		3.5	3.52	3.38
OUTDOOR SOUND LEVEL				
Sound Pressure dB(A)		62	62	63
DIMENSIONS				
Outdoor Unit	Length (mm)	990	938	938
	Width (mm)	354	392	392
	Height (mm)	966	1369	1369
	Weight (kg)	70	100	122
Indoor Unit	Length (mm)	1205	1205	1352
	Width (mm)	550	550	550
	Height (mm)	380	380	490
	Weight (kg)	51	54	75 (53 + 22)
PIPING SPECIFICATIONS				
Maximum Pipe	Length (m)	65	65	65
Maximum Vertical	Length (m)	30	30	30
Pipe Sizes (mm)	Gas	15.9 (5/8")	19 (3/4")	19 (3/4")
	Liquid	9.5 (3/8")	9.5 (3/8")	9.5 (3/8")
Pre-Charge Pipe Length (m)		15	15	15
Compressor Soft Starter		YES	YES	YES
Supply Air Connection (mm)		1005 x 255	1005 x 255	1200 x 380
Return Air Connection (mm)		1145 x 340	1145 x 340	1193 x 410

# DIGITAL INVERTER

\*HIGH STATIC, VARIABLE REFRIGERANT FLOW, VARIABLE INDOOR AIRFLOW

SYSTEM MODEL		HS-DV-19	HS-DV-22	HS-DV-26
INDOOR UNIT MODEL		HS-VAV-19	HS-VAV-22	HS-VAV-26
OUTDOOR UNIT MODEL		HS-DIG-19	HS-DIG-22	HS-DIG-26
Nett Cooling Capacity (kW)		18.6 (1.8~19)	21.8 (2~22)	25.56 (2.5~26)
Nett Heating Capacity (kW)		19.1 (1.8~19.1)	20.8 (2~21)	24.13 (2.4~24.0)
Air Flow High (l/s)		1180	1200	1500
Air Flow Low (l/s)		200	200	200
Supply Pressure Range (Pa)		30 ~ 150	30 ~ 150	30 ~ 150
ELECTRICAL DATA		THREE PHASE	THREE PHASE	THREE PHASE
Power Supply		415 Volts ~ 3 Phase ~ 50 Hz	415 Volts ~ 3 Phase ~ 50 Hz	415 Volts ~ 3 Phase ~ 50 Hz
Recommended circuit breaker size (A)		20	20	25
Electrical Input Cooling (kW)		5.5	5.65	7.18
AEER		3.15	3.86	3.56
Electrical Input Heating (kW)		5.00	5.06	6.31
ACOP		3.66	4.11	3.82
OUTDOOR SOUND LEVEL				
Sound Pressure dB(A)		65	65	65
DIMENSIONS				
Outdoor Unit	Length (mm)	1320	1320	1320
	Width (mm)	620	620	620
	Height (mm)	985	985	985
	Weight (kg)	149	150	151
Indoor Unit	Length (mm)	1352	1630	1630
	Width (mm)	550	610	610
	Height (mm)	490	490	490
	Weight (kg)	75 (53 + 22)	94 (70 + 24)	94 (70 + 24)
PIPING SPECIFICATIONS				
Maximum Pipe Length (m)		65	65	65
Maximum Vertical Length (m)		30	30	30
Pipe Sizes (mm)	Gas	19 (3/4")	22.2 (7/8")	25.4 (1")
	Liquid	9.5 (3/8")	12.7 (1/2")	12.7 (1/2")
Pre-Charge Pipe Length (m)		15	15	15
Compressor Soft Starter		YES	Optional	Optional
Supply Air Connection (mm)		1200 x 380	1325 x 305	1325 x 305
Return Air Connection (mm)		1193 x 410	1400 x 410	1400 x 410

# RADICAL FLOW

\*SUPER HIGH STATIC, VARIABLE REFRIGERANT FLOW, VARIABLE INDOOR AIRFLOW

SYSTEM MODEL		HS-IR-10	HS-IR-14	HS-IR-17
INDOOR UNIT MODEL		HS-RAD-10	HS-RAD-14	HS-RAD-17
OUTDOOR UNIT MODEL		HS-INV-10	HS-INV-14	HS-INV-17
Nett Cooling Capacity (kW)		10.4 (1.8~12)	13.5 (1.8~15.5)	16.8 (1.8~19)
Nett Heating Capacity (kW)		11.2(1.8~14)	16 (1.8~19.5)	17.7 (1.8~22)
Air Flow High (l/s)		880	916	1025
Air Flow Low (l/s)		200	200	200
Supply Pressure Range		30 ~ 450	30 ~ 450	30 ~ 450
ELECTRICAL DATA		ONE PHASE	ONE PHASE	ONE PHASE
Power Supply		240 Volts ~ 1 Phase ~ 50 Hz	240 Volts ~ 1 Phase ~ 50 Hz	240 Volts ~ 1 Phase ~ 50 Hz
Recommended circuit breaker size (A)		25	32	32
Electrical Input Cooling (kW)		3.25	4.22	5.3
AEER		3.16	3.17	3.15
Electrical Input Heating (kW)		3.15	4.5	5.2
ACOP		3.5	3.52	3.38
OUTDOOR SOUND LEVEL				
Sound Pressure dB(A)		62	62	63
DIMENSIONS				
Outdoor Unit	Length (mm)	990	938	938
	Width (mm)	354	392	392
	Height (mm)	966	1369	1369
	Weight (kg)	70	100	122
Indoor Unit	Length (mm)	1205	1205	1355
	Width (mm)	340	340	340
	Height (mm)	380	380	490
	Weight (kg)	32	38	51
PIPING SPECIFICATIONS				
Maximum Pipe	Length (m)	65	65	65
Maximum Vertical	Length (m)	30	30	30
Pipe Sizes (mm)	Gas	15.9 (5/8")	19 (3/4")	19 (3/4")
	Liquid	9.5 (3/8")	9.5 (3/8")	9.5 (3/8")
Pre-Charge Pipe Length (m)		15	15	15
Compressor Soft Starter		YES	YES	YES
Supply Air Connection (mm)		1040 x 320	1040 x 320	1193 x 410
Return Air Connection (mm)		1055 x 303	1055 x 303	1193 x 410

<b>SYSTEM MODEL</b>		<b>HS-DR-19</b>	<b>HS-DR-22</b>	<b>HS-DR-26</b>
<b>INDOOR UNIT MODEL</b>		<b>HS-RAD-19</b>	<b>HS-RAD-22</b>	<b>HS-RAD-26</b>
<b>OUTDOOR UNIT MODEL</b>		<b>HS-DIG-19</b>	<b>HS-DIG-22</b>	<b>HS-DIG-26</b>
Nett Cooling Capacity (kW)		18.6 (1.8~19)	21.8 (2~22)	25.56 (2.5~26)
Nett Heating Capacity (kW)		19.1 (1.8~19)	20.6 (2~21)	24.13 (2.4~24)
Air Flow High (l/s)		1180	1200	1500
Air Flow Low (l/s)		200	200	200
Supply Pressure Range		30 ~ 450	30 ~ 450	30 ~ 450
<b>ELECTRICAL DATA</b>		<b>THREE PHASE</b>	<b>THREE PHASE</b>	<b>THREE PHASE</b>
Power Supply		415 Volts ~ 3 Phase ~ 50 Hz	415 Volts ~ 3 Phase ~ 50 Hz	415 Volts ~ 3 Phase ~ 50 Hz
Recommended circuit breaker size (A)		20	20	25
Electrical Input Cooling (kW)		5.5	5.65	7.18
AEER		3.15	3.86	3.56
Electrical Input Heating (kW)		5.00	5.06	6.31
ACOP		3.66	4.11	3.82
<b>OUTDOOR SOUND LEVEL</b>				
Sound Pressure dB(A)		65	65	65
<b>DIMENSIONS</b>				
Outdoor Unit	Length (mm)	1320	1320	1320
	Width (mm)	620	620	620
	Height (mm)	975	975	975
	Weight (kg)	149	150	151
Indoor Unit	Length (mm)	1355	1615	1615
	Width (mm)	340	340	340
	Height (mm)	490	490	490
	Weight (kg)	51	62	62
<b>PIPING SPECIFICATIONS</b>				
Maximum Pipe	Length (m)	65	65	65
Maximum Vertical Length (m)		30	30	30
Pipe Sizes (mm)	Gas	19 (3/4")	22.2 (7/8")	25.4 (1")
	Liquid	9.5 (3/8")	12.7 (1/2")	12.7 (1/2")
Pre-Charge Pipe Length (m)		15	15	15
Compressor Soft Starter		Optional	Optional	Optional
Supply Air Connection (mm)		1193 x 410	1392 x 410	1392 x 410
Return Air Connection (mm)		1193 X 410	1400 x 410	1400 x 410

# CLIMATE HUB

\*INTEGRATED SUPPLY AIR PLENUM AND MOTORISED DAMPERS

SYSTEM MODEL		HS-IH-10	HS-IH-14	HS-IH-17
INDOOR UNIT MODEL		HS-HUB-10	H-HUB-14	H-HUB-17
OUTDOOR UNIT MODEL		HS-INV-10	HS-INV-14	HS-INV-17
Nett Cooling Capacity (kW)		10.4 (1.8~12)	13.5 (1.8~15.5)	16.8 (1.8~19)
Nett Heating Capacity (kW)		11.2(1.8~14)	16 (1.8~19.5)	17.7 (1.8~22)
Air Flow High (l/s)		880	916	1025
Air Flow Low (l/s)		200	200	200
Supply Pressure Range (Pa)		30 ~ 450	30 ~ 450	30 ~ 450
ELECTRICAL DATA		ONE PHASE	ONE PHASE	ONE PHASE
Power Supply		240 Volts ~ 1 Phase ~ 50 Hz	240 Volts ~ 1 Phase ~ 50 Hz	240 Volts ~ 1 Phase ~ 50 Hz
Recommended circuit breaker size (A)		25	32	32
Electrical Input Cooling (kW)		3.25	4.22	5.3
AEER		3.16	3.17	3.15
Electrical Input Heating (kW)		3.15	4.5	5.2
ACOP		3.5	3.52	3.38
OUTDOOR SOUND LEVEL				
Sound Pressure dB(A)		62	62	63
DIMENSIONS				
Outdoor Unit	Length (mm)	990	938	938
	Width (mm)	354	392	392
	Height (mm)	966	1369	1369
	Weight (kg)	70	100	122
Indoor Unit	Length (mm)	1205	1205	1355
	Width (mm)	570	570	570
	Height (mm)	380	380	490
	Weight (kg)	46 (32 + 14)	52 (38 + 14)	65 (51 + 14)
PIPING SPECIFICATIONS				
Maximum Pipe	Length (m)	65	65	65
Maximum Vertical	Length (m)	30	30	30
Pipe Sizes (mm)	Gas	15.9 (5/8")	19 (3/4")	19 (3/4")
	Liquid	9.5 (3/8")	9.5 (3/8")	9.5 (3/8")
Pre-Charge Pipe Length (m)		15	15	15
Compressor Soft Starter		YES	YES	YES
Supply Duct Connections		7 x 250	7 x 250	7 x 250/300
Return Air Connection (mm)		1055 x 303	1055 x 303	1193 x 410

<b>SYSTEM MODEL</b>		<b>HS-DH-19</b>	<b>HS-DH-22</b>	<b>HS-DH-26</b>
<b>INDOOR UNIT MODEL</b>		<b>HS-HUB-19</b>	<b>HS-HUB-22</b>	<b>HS-HUB-26</b>
<b>OUTDOOR UNIT MODEL</b>		<b>HS-DIG-19</b>	<b>HS-DIG-22</b>	<b>HS-DIG-26</b>
Nett Cooling Capacity (kW)		18.6 (1.8~19)	21.8 (2~22)	25.56 (2.5~26)
Nett Heating Capacity (kW)		19.1 (1.8~19)	20.6 (2~21)	24.13 (2.4~24)
Air Flow High (l/s)		1180	1200	1500
Air Flow Low (l/s)		200	200	200
Supply Pressure Range (Pa)		30 ~ 450	30 ~ 450	30 ~ 450
<b>ELECTRICAL DATA</b>		<b>THREE PHASE</b>	<b>THREE PHASE</b>	<b>THREE PHASE</b>
Power Supply		415 Volts ~ 3 Phase ~ 50 Hz	415 Volts ~ 3 Phase ~ 50 Hz	415 Volts ~ 3 Phase ~ 50 Hz
Recommended circuit breaker size (A)		20	20	25
Electrical Input Cooling (kW)		5.5	5.65	7.18
AEER		3.15	3.86	3.56
Electrical Input Heating (kW)		5.00	5.06	6.31
ACOP		3.66	4.11	3.82
<b>OUTDOOR SOUND LEVEL</b>				
Sound Pressure dB(A)		65	65	65
<b>DIMENSIONS</b>				
Outdoor Unit	Length (mm)	1320	1320	1320
	Width (mm)	620	620	620
	Height (mm)	975	975	975
	Weight (kg)	149	150	151
Indoor Unit	Length (mm)	1355	1550	1550
	Width (mm)	570	570	570
	Height (mm)	490	490	490
	Weight (kg)	65 (51 + 14)	78 (62 + 16)	78 (62 + 16)
<b>PIPING SPECIFICATIONS</b>				
Maximum Pipe	Length (m)	65	65	65
Maximum Vertical Length (m)		30	30	30
Pipe Sizes (mm)	Gas	19 (3/4")	22.2 (7/8")	25.4 (1")
	Liquid	9.5 (3/8")	12.7 (11/2")	12.7 (1/2")
Pre-Charge Pipe Length (m)		15	15	15
Compressor Soft Starter		Optional	Optional	Optional
Supply Duct Connection (mm)		7 x 250/300	8 x 250/300	8 x 250/300
Return Air Connection (mm)		1193 x 410	1400 x 410	1400 x 410

# SYGNAL PEACE OF MIND WARRANTY

Sygnal Climate provides a five (5) year warranty on Dual Inverter, Digital Inverter, Radical Flow and Climate HUB systems when used for human comfort applications.



**TO FIND OUT MORE ABOUT OUR PEACE OF MIND WARRANTY POLICY VISIT**

<http://www.sygnalsupport.com.au>



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