



Submittal Data Sheet

2 Ton, AC, Single Stage, 13 SEER - DX13SA0241

Project: Test 10.5 Sprint

Submitted by: Daikin Test of Havtech Corporation on 6/24/2018

Submitted to: No Engineer Name Specified

STANDARD FEATURES

- Energy-efficient scroll compressor
- High-density foam compressor sound blanket
- Advanced Copeland CoreSense technology
- Factory-installed filter drier
- Copper tube / enhanced aluminum fin coil
- Sweat connection service valves with easy access to gauge ports
- Contactor with lug connection
- AHRI Certified
- ETL Listed

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CABINET FEATURES

- Heavy-gauge galvanized-steel cabinet with grille-style sound control top design
- Custom Nickel Gray powder-paint finish
- 500-hour salt-spray tested
- Wire fan discharge grille
- Steel louver coil guard
- Top and side maintenance access
- Single-panel access to controls with space provided for field-installed accessories
- When properly anchored, meets the 2010 Florida Building Code unit integrity requirements for hurricane-type winds (Anchor bracket kits available.)



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2 Ton, AC, Single Stage, 13 SEER - DX13SA0241

Project: Test 10.5 Sprint

Submitted by: Daikin Test of Havtech Corporation on 6/24/2018

Submitted to: No Engineer Name Specified

PERFORMANCE * VALUES SHOWN ARE FOR AHRI RATED HIGH SALES VOLUME TESTED COMBINATION (HSVTC)			
Outdoor Unit Model No.	DX13SA0241	Outdoor Unit Name:	2 Ton, AC, Single Stage, 13 SEER
Rated Cooling Conditions:	Indoor (°F DB/WB): 80 / 67 Ambient (°F DB/WB): 95 / 75	Rated Heating Conditions:	Indoor (°F DB/WB): / Ambient (°F DB/WB): /
* EER:	11.00	* Rated Cooling Capacity (Btu/hr):	23,000
* SEER:	13.00		
OUTDOOR UNIT DETAILS			
Power Supply (V/Hz/Ph):	208/230 / 60 / 1	Compressor Type:	Single Stage
Min. Circuit Amps MCA (A):	17.6	Suction Valve Connection Size (inch):	3/4
Max Overcurrent Protection (MOP) (A):	30	Liquid Valve Connection Size (inch):	3/8
Rated Load Amps RLA(A):	13.5	Sound Pressure (High) (dBA):	71
Refrigerant Type:	R-410A	Cooling Operation Range (°F DB):	65 - 115
Holding Refrigerant Charge (lbs):	60	Heating Operation Range (°F WB):	-
Additional Charge (lb/ft):	0.04	Max. Pipe Length (Vertical) (ft):	200
Pre-charge Piping (Length) (ft):	15	Min. Cooling Range w/Baffle (°F DB):	55
Max. Pipe Length (Total) (ft):	200	Min. Heating Range w/Baffle (°F DB):	
Net Weight (lb):	115	Gross Weight (lb):	139
Dimensions (HxWxD) (in):	27-1/2 x 26 x 26		



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2 Ton, AC, Single Stage, 13 SEER - DX13SA0241

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Submitted by: Daikin Test of Havtech Corporation on 6/24/2018

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DIMENSIONAL DRAWING



Submittal Data Sheet

3.5 Ton, AC, Single Stage, 13 SEER - DX13SA0421

Project: Test 10.5 Sprint

Submitted by: Daikin Test of Havtech Corporation on 6/24/2018

Submitted to: No Engineer Name Specified

STANDARD FEATURES

- Energy-efficient scroll compressor
- High-density foam compressor sound blanket
- Advanced Copeland CoreSense technology
- Factory-installed filter drier
- Copper tube / enhanced aluminum fin coil
- Sweat connection service valves with easy access to gauge ports
- Contactor with lug connection
- AHRI Certified
- ETL Listed

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CABINET FEATURES

- Heavy-gauge galvanized-steel cabinet with grille-style sound control top design
- Custom Nickel Gray powder-paint finish
- 500-hour salt-spray tested
- Wire fan discharge grille
- Steel louver coil guard
- Top and side maintenance access
- Single-panel access to controls with space provided for field-installed accessories
- When properly anchored, meets the 2010 Florida Building Code unit integrity requirements for hurricane-type winds (Anchor bracket kits available.)



Submittal Data Sheet

3.5 Ton, AC, Single Stage, 13 SEER - DX13SA0421

Project: Test 10.5 Sprint

Submitted by: Daikin Test of Havtech Corporation on 6/24/2018

Submitted to: No Engineer Name Specified

PERFORMANCE * VALUES SHOWN ARE FOR AHRI RATED HIGH SALES VOLUME TESTED COMBINATION (HSVTC)			
Outdoor Unit Model No.	DX13SA0421	Outdoor Unit Name:	3.5 Ton, AC, Single Stage, 13 SEER
Rated Cooling Conditions:	Indoor (°F DB/WB): 80 / 67 Ambient (°F DB/WB): 95 / 75	Rated Heating Conditions:	Indoor (°F DB/WB): / Ambient (°F DB/WB): /
* EER:	11.00	* Rated Cooling Capacity (Btu/hr):	40,000
* SEER:	13.00		

OUTDOOR UNIT DETAILS			
Power Supply (V/Hz/Ph):	208/230 / 60 / 1	Compressor Type:	Single Stage
Min. Circuit Amps MCA (A):	23.7	Suction Valve Connection Size (inch):	1-1/8
Max Overcurrent Protection (MOP) (A):	40	Liquid Valve Connection Size (inch):	3/8
Rated Load Amps RLA(A):	17.9	Sound Pressure (High) (dBA):	74
Refrigerant Type:	R-410A	Cooling Operation Range (°F DB):	65 - 115
Holding Refrigerant Charge (lbs):	80	Heating Operation Range (°F WB):	-
Additional Charge (lb/ft):	0.05	Max. Pipe Length (Vertical) (ft):	200
Pre-charge Piping (Length) (ft):	15	Min. Cooling Range w/Baffle (°F DB):	55
Max. Pipe Length (Total) (ft):	200	Min. Heating Range w/Baffle (°F DB):	
Net Weight (lb):	171	Gross Weight (lb):	198
Dimensions (HxWxD) (in):	36-1/4 x 29 x 29		



Submittal Data Sheet

3.5 Ton, AC, Single Stage, 13 SEER - DX13SA0421

Project: Test 10.5 Sprint

Submitted by: Daikin Test of Havtech Corporation on 6/24/2018

Submitted to: No Engineer Name Specified

DIMENSIONAL DRAWING



Submittal Data Sheet

2.5 Ton, Ceiling-Mount, Uncased Air Handler - ACNF311016

Project: Test 10.5 Sprint

Submitted by: Daikin Test of Havtech Corporation on 6/24/2018

Submitted to: No Engineer Name Specified

STANDARD FEATURES

- 1. Check flowrate for heat pump and cooling-only applications
- 2. All-Aluminum tube/aluminum fin coil
- 3. Direct-drive, resilient-mount, multi-speed motor
- 3. Sequence-controlled and rust-resistant nickel chromium heating elements of 5, 6, 8 and 10 kW
- 4. High-efficiency evaporator coil
- 5. Quiet operation
- 6. Models with EEM motors: ACNF25 & ACNF31
- 7. Models with PSC motors: ACNF18, ACNF24, & ACNF30
- 8. Available with and without heat
- 9. AHRI Certified
- 10. ETL Listed
- 11. Primary/secondary drain connection in a high-temperature plastic drain pan
- 12. Suitable for free-return installation (non-ducted return air)
- 13. Galvanized-steel construction
- 14. Factory-installed pull-type disconnect
- 15. Easy service access

CABINET FEATURES

- None



Submittal Data Sheet

2.5 Ton, Ceiling-Mount, Uncased Air Handler - ACNF311016

Project: Test 10.5 Sprint

Submitted by: Daikin Test of Havtech Corporation on 6/24/2018

Submitted to: No Engineer Name Specified

PERFORMANCE

Product Model No.	ACNF311016	Product Model Name:	2.5 Ton, Ceiling-Mount, Uncased Air Handler
Type:	Air Handler	Cooling Capacity (Nominal) (Btu/hr):	30,000
Blower Motor Rating (HP):	1/4		

PRODUCT DETAILS

Power Supply (V/Hz/Ph):	208/230 / 60 / 1	Airflow Rate (High) (CFM):	
Min. Circuit Amps MCA (A):		Suction Valve Connection Size (inch):	3/4
Max Overcurrent Protection (MOP) (A):	15	Liquid Valve Connection Size (inch):	3/8
Dimensions (HxWxD) (in):	10 x 49-1/2 x 21	Condensate Connection (inch):	3/4
Net Weight (lb):		Blower Size Diameter (inch):	6.75
Gross Weight (lb):	142	Blower Size Width (inch):	8.25



Submittal Data Sheet

2.5 Ton, Ceiling-Mount, Uncased Air Handler - ACNF311016

Project: Test 10.5 Sprint

Submitted by: Daikin Test of Havtech Corporation on 6/24/2018

Submitted to: No Engineer Name Specified

DIMENSIONAL DRAWING



Submittal Data Sheet

3 Ton, Multi-Position, Multi-Speed ECM, Air Handler - ASPT39C14

Project: Test 10.5 Sprint

Submitted by: Daikin Test of Havtech Corporation on 6/24/2018

Submitted to: No Engineer Name Specified

STANDARD FEATURES

- 1. Internal factory-installed thermal expansion valves for cooling and heat pump applications
- 2. Direct drive, multi-speed ECM blower motor
- 3. All-aluminum evaporator coil
- 4. Coil mounting track for quick repositioning
- 5. Optimized for use with R-410A refrigerant
- 6. Cabinet air leakage less than 2.0% at 1.0 inch H2O when tested in accordance with ASHRAE standard 193
- 7. Cabinet air leakage less than 1.4% at 0.5 inch H2O when tested in accordance with ASHRAE standard 193
- 8. 3 kW - 25 kW electric heater kits
- 9. AHRI certified
- 10. ETL listed

CABINET FEATURES

- 1. Rigid SmartFrame cabinet
- 2. Horizontal or vertical configuration capabilities
- 3. 21" depth for easier attic access
- 4. DecaBDE-free thermoplastic drain pan with secondary drain connections
- 5. Screw-less sides and back helps to reduce condensation when installed in humid locations
- 6. Foil-faced insulation covers the internal casing to reduce cabinet condensation
- 7. Galvanized, leather grain-embossed finish
- 8. Glue-less cabinet insulation retention
- 9. Tool-less filter access



Submittal Data Sheet

3 Ton, Multi-Position, Multi-Speed ECM, Air Handler - ASPT39C14

Project: Test 10.5 Sprint

Submitted by: Daikin Test of Havtech Corporation on 6/24/2018

Submitted to: No Engineer Name Specified

PERFORMANCE

Product Model No.	ASPT39C14	Product Model Name:	3 Ton, Multi-Position, Multi-Speed ECM, Air Handler
Type:	Air Handler	Cooling Capacity (Nominal) (Btu/hr):	36,000
Blower Motor Rating (HP):	3/4		

PRODUCT DETAILS

Power Supply (V/Hz/Ph):	208/240 / 60 / 1	Airflow Rate (High) (CFM):	
Min. Circuit Amps MCA (A):	4.9/4.9	Suction Valve Connection Size (inch):	7/8
Max Overcurrent Protection (MOP) (A):	15	Liquid Valve Connection Size (inch):	3/8
Dimensions (HxWxD) (in):	49 x 21 x 21	Condensate Connection (inch):	3/4
Net Weight (lb):		Blower Size Diameter (inch):	10-5/8
Gross Weight (lb):	130	Blower Size Width (inch):	8



Submittal Data Sheet

3 Ton, Multi-Position, Multi-Speed ECM, Air Handler - ASPT39C14

Project: Test 10.5 Sprint

Submitted by: Daikin Test of Havtech Corporation on 6/24/2018

Submitted to: No Engineer Name Specified

DIMENSIONAL DRAWING



Submittal Data Sheet

4.5-Ton Multi Position Air Handling Unit - FXTQ54TAVJUA

Project: Test 10.5 Sprint

Submitted by: Daikin Test of Havtech Corporation on 6/24/2018

Submitted to: No Engineer Name Specified

FEATURES

- Capable of upflow, horizontal-right, horizontal-left, and downflow installation. Downflow installation requires the use of a field installed downflow accessory kit.
- Variable speed ECM motor produces nominal CFM up to 0.9â€ external static pressure
- Improved auxiliary heat logic
- Designed with less than 2% air leakage when tested in accordance with ASHRAE 193
- All-aluminum coil
- Precise refrigerant modulation from a 2000 pulse electric expansion valve
- Cool, Dry, Auto, Heat, and Fan operation modes
- Auto Fan Speed automatically adjusts fan speed in relation to space temperature and set point
- Configurable Dry mode
- Optional slide-in electric heat available up to 25 kW
- Standard Limited Warranty: 10-year warrantly on compressor and all parts

BENEFITS

- Optimized fan speed from Auto Fan Speed logic
- Reduced auxiliary heat dead band
- Configurable electric heat on/off temperature settings
- Compact footprint fits tight spaces



Submittal Data Sheet

4.5-Ton Multi Position Air Handling Unit - FXTQ54TAVJUA

Project: Test 10.5 Sprint

Submitted by: Daikin Test of Havtech Corporation on 6/24/2018

Submitted to: No Engineer Name Specified

PERFORMANCE			
Indoor Unit Model No.	FXTQ54TAVJUA	Indoor Unit Name:	4.5-Ton Multi Position Air Handling Unit
Type:	Ducted	Rated Cooling Conditions:	Indoor (°F DB/WB): 80 / 67 Ambient (°F DB/WB): 95 / 75
Rated Cooling Capacity (Btu/hr):	54,000	Rated Heating Conditions:	Indoor (°F DB/WB): 70 / 60 Ambient (°F DB/WB): 47 / 43
Sensible Capacity (Btu/hr):	39,300	Rated Piping Length(ft):	
Cooling Input Power (kW):	0.680	Rated Height Separation (ft):	
Rated Heating Capacity (Btu/hr):	60,000		
Heating Input Power (kW):	0.68		
INDOOR UNIT DETAILS			
Power Supply (V/Hz/Ph):	208/230 / 60 / 1	Airflow Rate (H/M/L) (CFM):	1800/1,530/1,260
Power Supply Connections:		Moisture Removal (Gal/hr):	
Min. Circuit Amps MCA (A):	8.6/8.6	Gas Pipe Connection (inch):	5/8
Max Overcurrent Protection (MOP) (A):	15	Liquid Pipe Connection (inch):	3/8
Dimensions (HxWxD) (in):	58 x 24.5 x 21	Condensate Connection (inch):	3/4
Net Weight (lb):	167	Sound Pressure () (dBA):	
Ext. Static Pressure (Rated/Max) (inWg):	/ 0.9"	Sound Power Level (dBA):	



Submittal Data Sheet

4.5-Ton Multi Position Air Handling Unit - FXTQ54TAVJUA

Project: Test 10.5 Sprint

Submitted by: Daikin Test of Havtech Corporation on 6/24/2018

Submitted to: No Engineer Name Specified

DIMENSIONAL DRAWING



Submittal Data Sheet

5.0-Ton Multi Position Air Handling Unit (w/ Disconnect) - FXTQ60TAVJUD

Project: Test 10.5 Sprint

Submitted by: Daikin Test of Havtech Corporation on 6/24/2018

Submitted to: No Engineer Name Specified

FEATURES

- Capable of upflow, horizontal-right, horizontal-left, and downflow installation. Downflow installation requires the use of a field installed downflow accessory kit.
- Variable speed ECM motor produces nominal CFM up to 0.9" external static pressure.
- Improved auxiliary heat logic
- Designed with less than 2% air leakage when tested in accordance with ASHRAE 193.
- All-aluminum coil
- Precise refrigerant modulation from a 2000 pulse electronic expansion valve
- Cool, Dry, Auto, Heat, and Fan operation modes
- Auto Fan Speed automatically adjusts fan speed in relation to space temperature and set point
- Factory mounted disconnect switch
- Configurable Dry mode
- Standard Limited Warranty: 10-year warranty on compressor and all parts

BENEFITS

- Optimized fan speed from Auto Fan Speed logic
- Reduced auxiliary heat dead band
- Configurable electric heat on/off temperature settings
- Compact footprint fits tight spaces



Submittal Data Sheet

5.0-Ton Multi Position Air Handling Unit (w/ Disconnect) - FXTQ60TAVJUD

Project: Test 10.5 Sprint

Submitted by: Daikin Test of Havtech Corporation on 6/24/2018

Submitted to: No Engineer Name Specified

PERFORMANCE

Indoor Unit Model No.	FXTQ60TAVJUD	Indoor Unit Name:	5.0-Ton Multi Position Air Handling Unit (w/ Disconnect)
Type:	Ducted	Rated Cooling Conditions:	Indoor (°F DB/WB): 80 / 67 Ambient (°F DB/WB): 95 / 75
Rated Cooling Capacity (Btu/hr):	60,000	Rated Heating Conditions:	Indoor (°F DB/WB): 70 / 60 Ambient (°F DB/WB): 47 / 43
Sensible Capacity (Btu/hr):	41,300	Rated Piping Length(ft):	
Cooling Input Power (kW):	0.680	Rated Height Separation (ft):	
Rated Heating Capacity (Btu/hr):	66,000		
Heating Input Power (kW):	0.68		

INDOOR UNIT DETAILS

Power Supply (V/Hz/Ph):	208/230 / 60 / 1	Airflow Rate (H/M/L) (CFM):	1800/1,530/1,260
Power Supply Connections:		Moisture Removal (Gal/hr):	
Min. Circuit Amps MCA (A):	8.6/8.6	Gas Pipe Connection (inch):	5/8
Max Overcurrent Protection (MOP) (A):	15	Liquid Pipe Connection (inch):	3/8
Dimensions (HxWxD) (in):	58 x 24.5 x 21	Condensate Connection (inch):	3/4
Net Weight (lb):	167	Sound Pressure () (dBA):	
Ext. Static Pressure (Rated/Max) (inWg):	/ 0.9"	Sound Power Level (dBA):	



Submittal Data Sheet

5.0-Ton Multi Position Air Handling Unit (w/ Disconnect) - FXTQ60TAVJUD

Project: Test 10.5 Sprint

Submitted by: Daikin Test of Havtech Corporation on 6/24/2018

Submitted to: No Engineer Name Specified

DIMENSIONAL DRAWING



Submittal Data Sheet

16 Ton, 575V, VRV IV HR - REYQ192TAYCU

Project: Test 10.5 Sprint

Submitted by: Daikin Test of Havtech Corporation on 6/24/2018

Submitted to: No Engineer Name Specified

FEATURES

- Designed with Daikin's K-type compressor to deliver heating down to -13°F (-25°C) as standard
- Efficient and stable inverter board operation that is independent of ambient conditions
- Ability for Auto changeover to back-up (auxiliary) heat
- Year round comfort and energy efficiency delivered by combining VRV and VRT technologies
- Available in single modules ranging up to 14 tons and multi modules systems ranging up 32 tons
- Compatible with the VRV-IV T-series Branch Selector Boxes
- Seamless connection to all VRV M, P and T series indoor units
- Factory standard coil guards
- Assembled in the US to increase flexibility and reduce lead times
- Standard Limited Warranty: 10-year limited parts warranty

BENEFITS

- Refrigerant cooled inverted technology allows installation without additional drain pan heater
- Designed and optimized for Total Cost of Construction (TCC) and reduced Life Cycle Cost (LCC)
- Can operate up to 33 indoor units on a single piping network
- Modular and lightweight - enables flexibility in system layout and installation
- Engineered with 575V inverter board and compressor to eliminate the need of additional transformer or voltage converters
- Heat exchanger coil wraps around on all 4 sides of the unit to increase the surface area / efficiency
- Continuous heating during defrost and oil return allows constant comfort control
- Corrosion resistance 1000hr salt spray tested Daikin PE blue fin heat exchanger
- Design for installation flexibility of piping lengths up to 3,280 ft. total and 98 ft. vertical separation between indoor units
- Digital display on the unit for improved and faster configuration, commissioning, and trouble shooting



Submittal Data Sheet

16 Ton, 575V, VRV IV HR - REYQ192TAYCU

Project: Test 10.5 Sprint

Submitted by: Daikin Test of Havtech Corporation on 6/24/2018

Submitted to: No Engineer Name Specified

PERFORMANCE

Outdoor Unit Model No.	REYQ192TAYCU	Outdoor Unit Name:	16 Ton, 575V, VRV IV HR
Type:	Heat Recovery	Unit Combination:	REYQ96TAYCU(x2)
Rated Cooling Conditions:	Indoor (°F DB/WB): 80 / 67 Ambient (°F DB/WB): 95 / 75	Rated Heating Conditions:	Indoor (°F DB/WB): 70 / 60 Ambient (°F DB/WB): 47 / 43
Rated Piping Length(ft):	25		
Rated Height Difference (ft):			
Rated Cooling Capacity (Btu/hr):	184,000	Rated Heating Capacity (Btu/hr):	206,000
Nom Cooling Capacity (Btu/hr):	192,000	Nom Heating Capacity (Btu/hr):	216,000
Cooling Input Power (kW):	13.30	Heating Input Power (kW):	14.90
EER (Non-Ducted/Ducted):	12.50 / 12.60	Heating COP (Non-Ducted/Ducted):	3.9 / 3.7
IEER (Non-Ducted/Ducted):	22.20 / 19.70	Heating COP 17F (Non-Ducted/Ducted):	2.5 / 2.4
		SCHE (Non-Ducted/Ducted):	26.70 / 22.80

OUTDOOR UNIT DETAILS

Power Supply (V/Hz/Ph):	575 / 60 / 3	Compressor Stage:	Inverter
Power Supply Connections:	L1, L2, L3 Ground	Capacity Control Range (%):	6 - 100
Min. Circuit Amps MCA (A):	16.8+16.8	Capacity Index Limit:	96.0 - 249.0
Max Overcurrent Protection (MOP) (A):	20+20	Airflow Rate (H) (CFM):	7989+7989
Max Starting Current MSC(A):		Gas Pipe Connection (inch):	1-1/8
Rated Load Amps RLA(A):	8.9+8.9	Liquid Pipe Connection (inch):	5/8
Dimensions (Height) (in):	66-11/16	H/L Pressure Connection (inch)	1-1/8
Dimensions (Width) (in):	48-7/8+48-7/8	H/L Equalizing Connection (inch)	
Dimensions (Depth) (in):	30-3/16	Sound Pressure (H) (dBA):	68
Net Weight (lb):	727+727	Sound Power Level (dBA):	83
		Max. No. of Indoor Units:	33



Submittal Data Sheet

16 Ton, 575V, VRV IV HR - REYQ192TAYCU

Project: Test 10.5 Sprint

Submitted by: Daikin Test of Havtech Corporation on 6/24/2018

Submitted to: No Engineer Name Specified

SYSTEM DETAILS			
Refrigerant Type:	R-410A	Cooling Operation Range (°F DB):	23 - 122
Holding Refrigerant Charge (lbs):	25.8+25.8	Heating Operation Range (°F WB):	-13 - 60
Additional Charge (lb/ft):		Max. Pipe Length (Vertical) (ft):	295
Pre-charge Piping (Length) (ft):		Cooling Range w/Baffle (°F DB):	-
Max. Pipe Length (Total) (ft):	540	Heating Range w/Baffle (°F WB):	-
Max Height Separation (Ind to Ind ft):			

DIMENSIONAL DRAWING