

These requirements apply to all IRC building types, including detached one- and two-family dwellings and multiple single-family dwellings (townhouses).

Project Information	Contact Information
9118 - LOT 4, BLOCK N, MERCER WOOD	DAVE STAVE
4215 MERCERWOOD DR.	DAVES@BUCHANHOMES.COM

Instructions: This single-family project will use the requirements of the Prescriptive Path below and incorporate the minimum values listed. Based on the size of the structure, the appropriate number of additional credits are checked as chosen by the permit applicant.

Provide all information from the following tables as building permit drawings: Table R402.1 - Insulation and Fenestration Requirements by Component, Table R406.2 - Fuel Normalization Credits and 406.3 - Energy Credits.

Authorized Representative	David Stave	Date	10/05/2021
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Digitally signed by David Stave
 DN: cn=David Stave, o=William E. Buchan Inc., ou,
 email=daves@buchanhomes.com, c=US
 Date: 2021.04.12 13:31:31 -0700

All Climate Zones (Table R402.1.1)		
	R-Value ^a	U-Factor ^a
Fenestration U-Factor ^b	n/a	0.30
Skylight U-Factor ^b	n/a	0.50
Glazed Fenestration SHGC ^{b,e}	n/a	n/a
Ceiling ^e	49	0.026
Wood Frame Wall ^{g,h}	21 int	0.056
Floor	30	0.029
Below Grade Wall ^{c,h}	10/15/21 int + TB	0.042
Slab ^{d,f} R-Value & Depth	10, 2 ft	n/a

- a R-values are minimums. U-factors and SHGC are maximums. When insulation is installed in a cavity that is less than the label or design thickness of the insulation, the compressed R-value of the insulation from Appendix Table A101.4 shall not be less than the R-value specified in the table.
- b The fenestration U-factor column excludes skylights.
- c "10/15/21 +5TB" means R-10 continuous insulation on the exterior of the wall, or R-15 continuous insulation on the interior of the wall, or R-21 cavity insulation plus a thermal break between the slab and the basement wall at the interior of the basement wall. "10/15/21 +5TB" shall be permitted to be met with R-13 cavity insulation on the interior of the basement wall plus R-5 continuous insulation on the interior or exterior of the wall. "5TB" means R-5 thermal break between floor slab and basement wall.
- d R-10 continuous insulation is required under heated slab on grade floors. See Section R402.2.9.1.
- e For single rafter- or joist-vaulted ceilings, the insulation may be reduced to R-38 if the full insulation depth extends over the top plate of the exterior wall.
- f R-7.5 continuous insulation installed over an existing slab is deemed to be equivalent to the required perimeter slab insulation when applied to existing slabs complying with Section R503.1.1. If foam plastic is used, it shall meet the requirements for thermal barriers protecting foam plastics.
- g For log structures developed in compliance with Standard ICC 400, log walls shall meet the requirements for *climate zone 5* of ICC 400.
- h Int. (intermediate framing) denotes framing and insulation as described in Section A103.2.2 including standard framing 16 inches on center, 78% of the wall cavity insulated and headers insulated with a minimum of R-10 insulation.

2018 Washington State Energy Code – Residential
Prescriptive Energy Code Compliance for All Climate Zones in Washington
Single Family – New & Additions (effective February 1, 2021)

Each dwelling unit *in a residential building* shall comply with sufficient options from Table R406.2 (fuel normalization credits) and Table 406.3 (energy credits) to achieve the following minimum number of credits. To claim this credit, the building permit drawings shall specify the option selected and the maximum tested building air leakage, and show the qualifying ventilation system and its control sequence of operation.

1. **Small Dwelling Unit: 3 credits**
 Dwelling units less than 1,500 sf in conditioned floor area with less than 300 sf of fenestration area.
 Additions to existing building that are greater than 500 sf of heated floor area but less than 1,500 sf.
2. **Medium Dwelling Unit: 6 credits**
 All dwelling units that are not included in #1 or #3
3. **Large Dwelling Unit: 7 credits**
 Dwelling units exceeding 5,000 sf of conditioned floor area
4. **Additions less than 500 square feet: 1.5 credits**
All other additions shall meet 1-3 above

Before selecting your credits on this Summary table, review the details in Table 406.3 (Single Family), on page 4.

Summary of Table R406.2				
Heating Options	Fuel Normalization Descriptions	Credits - select ONE heating option		User Notes
1	Combustion heating minimum NAECA ^b	0.0	<input type="radio"/>	
2	Heat pump ^c	1.0	<input checked="" type="radio"/>	
3	Electric resistance heat only - furnace or zonal	-1.0	<input type="radio"/>	
4	DHP with zonal electric resistance per option 3.4	0.5	<input type="radio"/>	
5	All other heating systems	-1.0	<input type="radio"/>	
Energy Options	Energy Credit Option Descriptions	Credits - select ONE energy option from each category ^d		User Notes
1.1	Efficient Building Envelope	0.5	<input type="radio"/>	
1.2	Efficient Building Envelope	1.0	<input type="radio"/>	
1.3	Efficient Building Envelope	0.5	<input checked="" type="radio"/>	
1.4	Efficient Building Envelope	1.0	<input type="radio"/>	
1.5	Efficient Building Envelope	2.0	<input type="radio"/>	
1.6	Efficient Building Envelope	3.0	<input type="radio"/>	
1.7	Efficient Building Envelope <input type="radio"/>	0.5	<input type="radio"/>	
2.1	Air Leakage Control and Efficient Ventilation	0.5	<input type="radio"/>	
2.2	Air Leakage Control and Efficient Ventilation	1.0	<input type="radio"/>	
2.3	Air Leakage Control and Efficient Ventilation	1.5	<input type="radio"/>	
2.4	Air Leakage Control and Efficient Ventilation <input type="radio"/>	2.0	<input type="radio"/>	
3.1 ^a	High Efficiency HVAC	1.0	<input type="radio"/>	
3.2	High Efficiency HVAC	1.0	<input type="radio"/>	
3.3 ^a	High Efficiency HVAC	1.5	<input type="radio"/>	
3.4	High Efficiency HVAC	1.5	<input type="radio"/>	
3.5	High Efficiency HVAC	1.5	<input checked="" type="radio"/>	
3.6 ^a	High Efficiency HVAC <input type="radio"/>	2.0	<input type="radio"/>	
4.1	High Efficiency HVAC Distribution System	0.5	<input type="radio"/>	
4.2	High Efficiency HVAC Distribution System <input type="radio"/>	1.0	<input checked="" type="radio"/>	

2018 Washington State Energy Code – Residential
Prescriptive Energy Code Compliance for All Climate Zones in Washington
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Summary of Table R406.2 (cont.)			
Energy Options	Energy Credit Option Descriptions (cont.)	Credits - select ONE energy option from each category ^d	User Notes
5.1 ^d	Efficient Water Heating	0.5	<input type="checkbox"/>
5.2	Efficient Water Heating	0.5	<input type="radio"/>
5.3	Efficient Water Heating	1.0	<input type="radio"/>
5.4	Efficient Water Heating	1.5	<input type="radio"/>
5.5	Efficient Water Heating	2.0	<input checked="" type="radio"/>
5.6	Efficient Water Heating	2.5	<input type="radio"/>
6.1 ^e	Renewable Electric Energy (3 credits max)	1.0	<input type="checkbox"/>
7.1	Appliance Package	0.5	<input type="checkbox"/>
Total Credits		6	<input type="button" value="Calculate Total"/> <input type="button" value="Clear Form"/>

- a. An alternative heating source sized at a maximum of 0.5 W/sf (equivalent) of heated floor area or 500 W, whichever is bigger, may be installed in the dwelling unit.
- b. Equipment listed in Table C403.3.2(4) or C403.3.2(5)
- c. Equipment listed in Table C403.3.2(1) or C403.3.2(2)
- d. **You cannot select more than one option from any category EXCEPT in category 5. Option 5.1 may be combined with options 5.2 through 5.6. See Table 406.3.**
- e. 1.0 credit for each 1,200 kWh of electrical generation provided annually, up to 3 credits max. See the complete Table R406.2 for all requirements and option descriptions.
- f. Use the single radiobutton in the upper right of the second column to deselect radiobuttons in that group.

Please print only pages 1 through 3 of this worksheet for submission to your building official.

	0.28
	0.28
	0.28
	0.28
	0.28
	0.28
	0.28
	0.28
	0.28
	0.28

0.0	0.00
0.0	0.00
0.0	0.00
0.0	0.00
0.0	0.00
0.0	0.00
0.0	0.00
0.0	0.00
0.0	0.00
0.0	0.00

Sum of Vertical Fenestration Area and UA
Vertical Fenestration Area Weighted U = UA/Area

891.6	249.66
	0.28

Overhead Glazing (Skylights)

Component Description	Ref.	U-factor

Qt.	Width		Height	
	Feet	Inch	Feet	Inch

Area	UA
0.0	0.00
0.0	0.00
0.0	0.00
0.0	0.00
0.0	0.00
0.0	0.00

Sum of Overhead Glazing Area and UA
Overhead Glazing Area Weighted U = UA/Area

0.0	0.00
	0.00

Total Sum of Fenestration Area and UA (for heating system sizing calculations)

891.6	249.66
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Simple Heating System Size: Washington State

This heating system sizing calculator is based on the Prescriptive Requirements of the 2018 Washington State Energy Code (WSEC) and ACCA Manuals J and S. This tool will calculate heating loads only. ACCA procedures for sizing cooling systems should be used to determine cooling loads.

Please complete the green drop-downs and boxes that are applicable to your project. As you make selections in the drop-downs for each section, some values will be calculated for you. If you do not see the selection you need in the drop-down options, please contact the WSU Energy Program at energycode@energy.wsu.edu or (360) 956-2042 for assistance.

Project Information

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4215 MERCERWOOD DR.

Contact Information

DAVE STAVE
DAVES@BUCHANHOMES.COM

Heating System Type: All Other Systems Heat Pump

To see detailed instructions for each section, place your cursor on the word "Instructions"

Design Temperature

[Instructions](#)

Mercer Island

Design Temperature Difference (ΔT) 45

$\Delta T = \text{Indoor (70 degrees) - Outdoor Design Temp}$

Area of Building

Conditioned Floor Area

[Instructions](#)

Conditioned Floor Area (sq ft)

4,960

Average Ceiling Height

[Instructions](#)

Average Ceiling Height (ft)

9.3

Conditioned Volume

46,277

Glazing and Doors

[Instructions](#)

U-0.28

U-Factor X Area = UA
0.280 X 892 = 249.76

Skylights

[Instructions](#)

U-Factor X Area = UA
0.50 X --- = ---

Insulation

Attic

[Instructions](#)

R-38 Advanced

U-Factor X Area = UA
0.026 X 2,182 = 56.73

Single Rafter or Joist Vaulted Ceilings

[Instructions](#)

R-49 Advanced

U-Factor X Area = UA
0.020 X 616 = 12.32

Above Grade Walls (see Figure 1)

[Instructions](#)

R-21 Intermediate

U-Factor X Area = UA
0.056 X 3,724 = 208.54

Floors

[Instructions](#)

R-38

U-Factor X Area = UA
0.025 X 2,595 = 64.88

Below Grade Walls (see Figure 1)

[Instructions](#)

R-21 Interior

U-Factor X Area = UA
0.042 X 1,072 = 45.02

Slab Below Grade (see Figure 1)

[Instructions](#)

R-21 int Plus R-12 ci

F-Factor X Length = UA
0.303 X 114 = 34.54

Slab on Grade (see Figure 1)

[Instructions](#)

R-10 Fully Insulated

F-Factor X Length = UA
0.360 X 37 = 13.32

Location of Ducts

[Instructions](#)

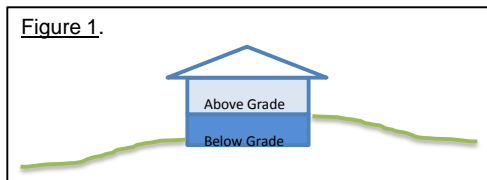
Conditioned Space

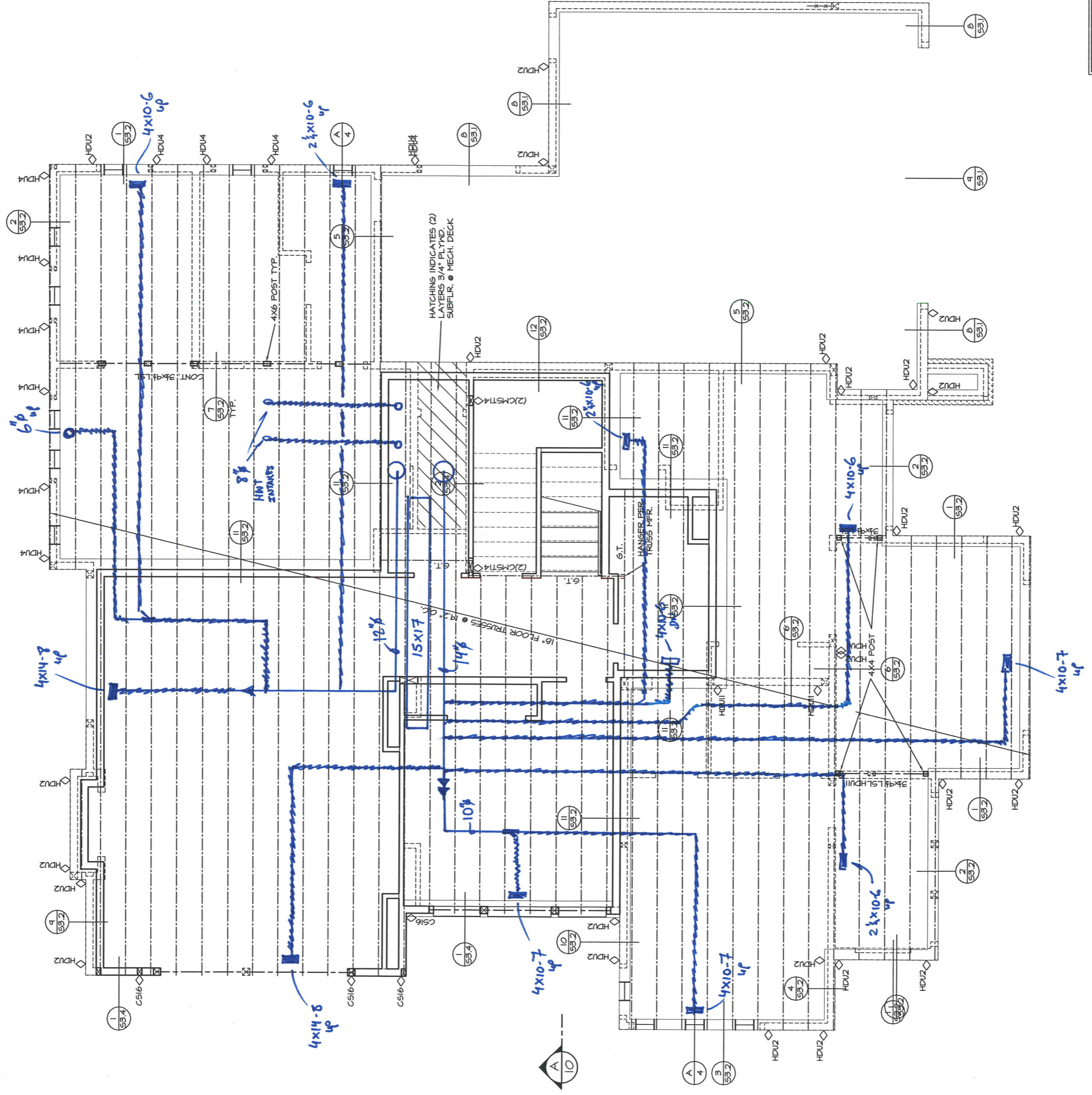
Duct Leakage Coefficient

1.00

Sum of UA 685.12
Envelope Heat Load 30,830 Btu / Hour
Sum of UA x ΔT
Air Leakage Heat Load 22,491 Btu / Hour
Volume x 0.6 x ΔT x 0.018
Building Design Heat Load 53,321 Btu / Hour
Air leakage + envelope heat loss
Building and Duct Heat Load 53,321 Btu / Hour
Ducts in unconditioned space: sum of building heat loss x 1.10
Ducts in conditioned space: sum of building heat loss x 1
Maximum Heat Equipment Output 66,651 Btu / Hour
Building and duct heat loss x 1.40 for forced air furnace
Building and duct heat loss x 1.25 for heat pump

Figure 1.



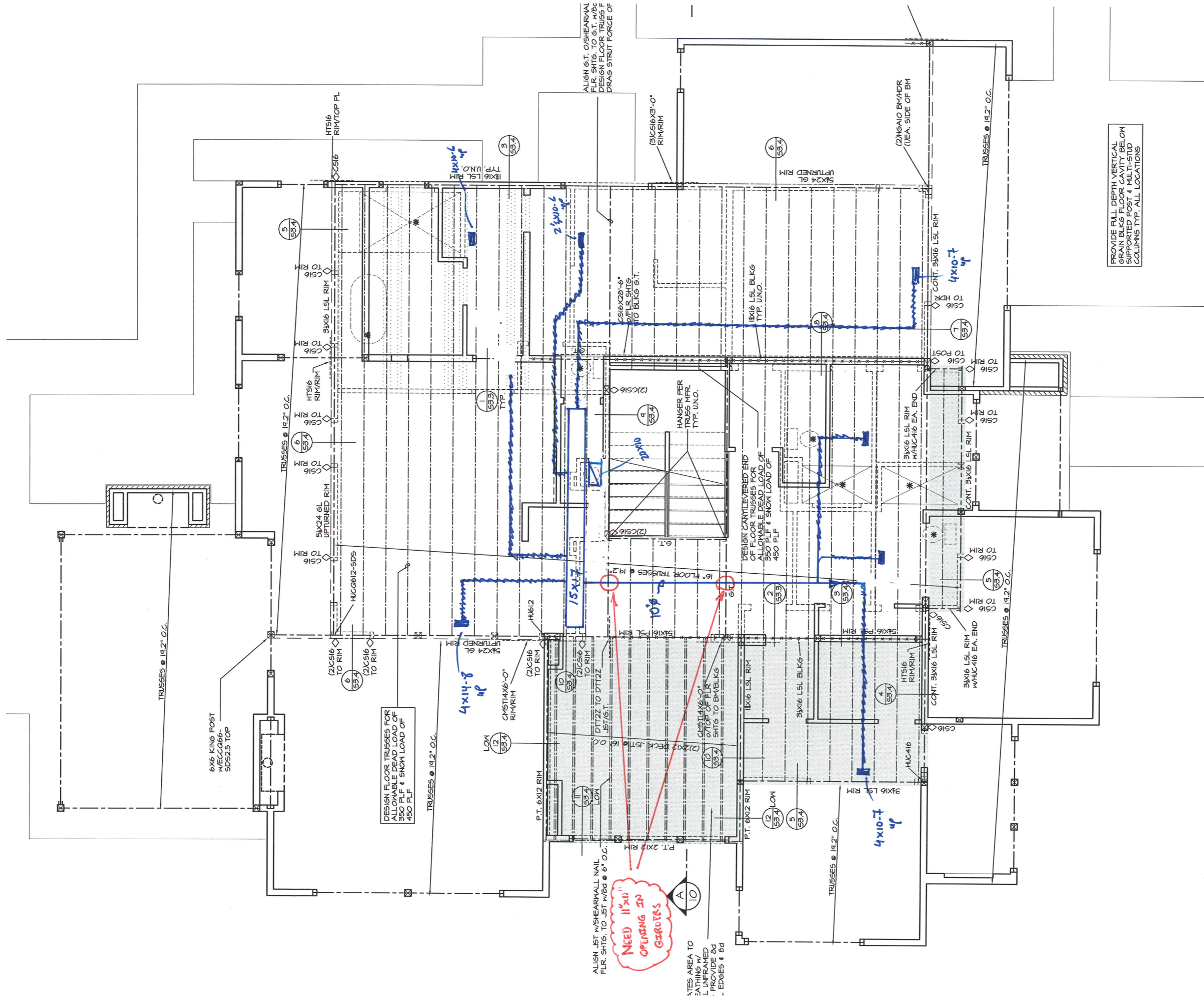


PROVIDE FULL DEPT
GRAIN BLOCKING IN
CAVITY BELOW SUFF
POSTS & MULTI-STUD
TYP. ALL LOCATIONS



MAIN FLR. FRAMING

SCALE: 1/4" = 1'-0"



PROVIDE FULL DEPTH VERTICAL GRAN BLK. FLOOR CONT. BELOW SUPPORTED POST & MULTISPD COLUMNS TYP. ALL LOCATIONS



UPPER FLR. FRAMING

SCALE: 1/4" = 1'-0"

NEED 11"x11" OPENING IN G-ROVERS

NOTES AREA TO BATHING W/ UNFRAMED BD - PROVIDE BD EDGES & BD

DESIGN FLOOR TRUSSES FOR ALLOWABLE DEAD LOAD OF 350 PLF & SNOW LOAD OF 450 PLF

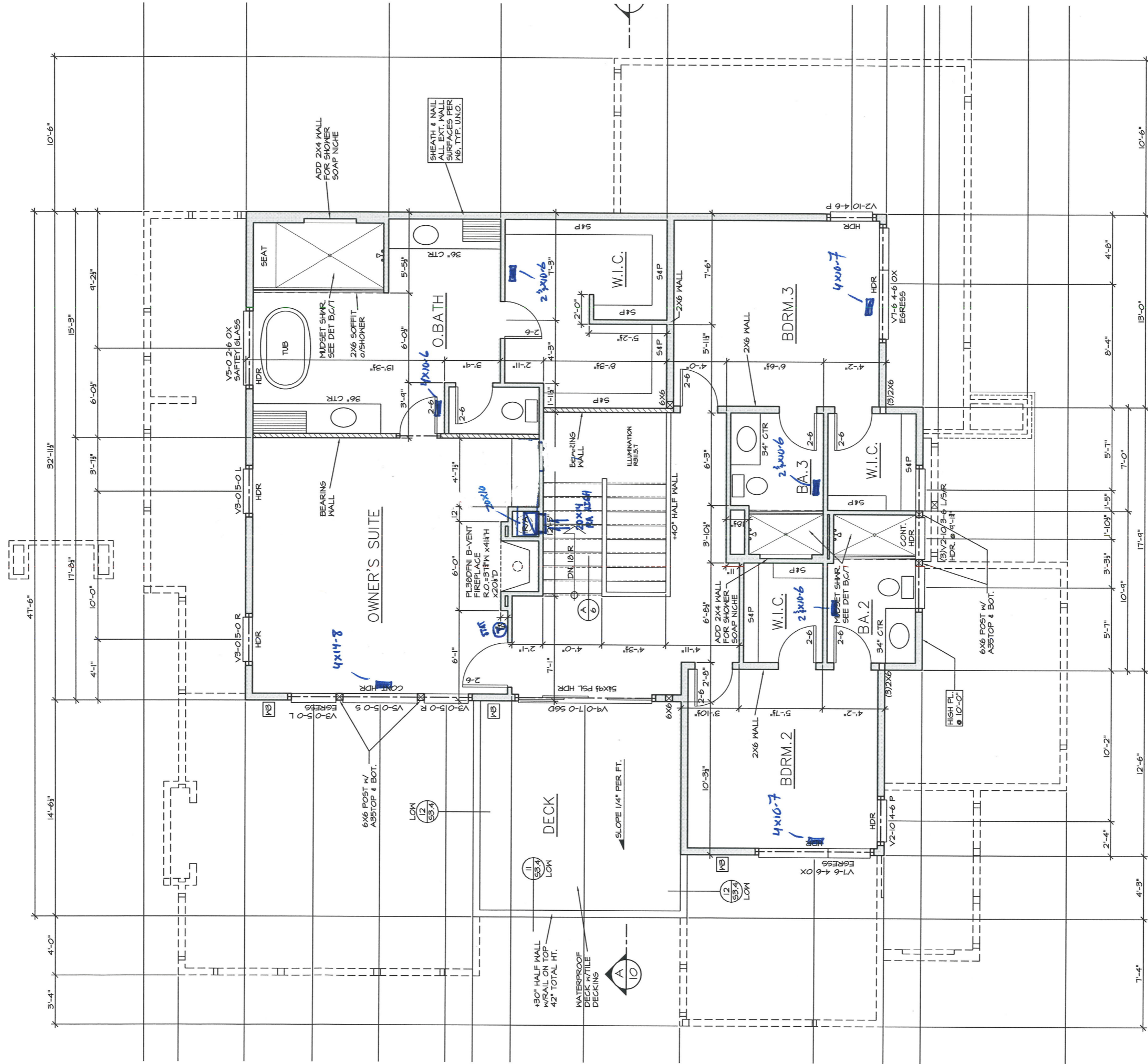
DESIGN CANTILEVERED END OF FLOOR TRUSSES FOR ALLOWABLE DEAD LOAD OF 350 PLF & SNOW LOAD OF 450 PLF

ALIGN G.T. O/SHEARWALL FLR. SHTG. TO G.T. W/BD DESIGN FLOOR TRUSSES F DRAG STRUT FORCE OF

6x6 KING POST REC. 06x5052.5 TOP

ALIGN JST W/SHEARWALL NAIL FLR. SHTG. TO JST W/BD @ 6" O.C.

NOTES AREA TO BATHING W/ UNFRAMED BD - PROVIDE BD EDGES & BD



TRICAL SYMBOLS

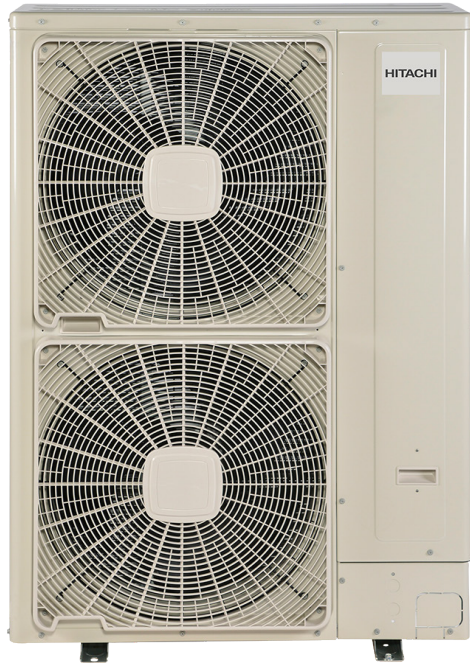
- EXHAUST FAN
VENTED TO OUTSIDE
- SMOKE DETECTOR
TYPE: UL LISTED
- CARBON MONOXIDE
SMOKE DETECTOR
TYPE: UL LISTED

UPPER FLOOR PLAN

SCALE: 1/4" = 1'-0"



A Breath of Fresh Air



HITACHI MINI VRF SYSTEMS

The compact solution for exceptional comfort and energy savings

Good things do indeed come in small packages. With Hitachi Mini VRF Systems, you don't have to sacrifice space for performance.

The outdoor unit boasts the Hitachi-designed high-efficiency scroll compressor — technology known for its reliability, efficiency, and extremely low noise level. In addition, multiple indoor unit options are available which enable individual comfort control of up to eight rooms or zones, providing everyone with customized, whisper-quiet comfort.

With the Hitachi Mini VRF System, you'll enjoy savings as well as comfort because it is one of the most energy-efficient HVAC options available today.

Choose the low-profile solution that impresses with big performance - the Hitachi Mini VRF System.

Cooling & Heating



So much to love

The Hitachi Mini VRF System delivers impressive performance year after year with energy efficiency that is best in class.

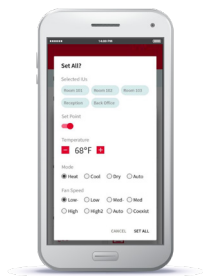
Everyone can find their comfort zone.

Up to eight different rooms or zones can be programmed individually for personalized comfort.

So quiet you can hear a pin drop. Mini VRF systems are literally whisper-quiet with sound ratings as low as 26dBA for indoor units, and 44dBA for outdoor units. Your other appliances will be jealous — and your neighbors will be grateful.

Control at home and away.

Choose from a wide selection of controllers including the sleek and intuitive Advanced Color Controller which provides precise control over temperatures, settings, and schedules and the airCloud Pro™ which gives you anytime, anywhere control through your smartphone or the web.



airCloud Pro™ puts control at your fingertips. (App is compatible with third-party smart thermostats.)



Ultimate control meets award-winning design in the Advanced Color Controller.

Built by a brand you know and trust.

The Hitachi name is synonymous with quality. You'll enjoy years of worry-free performance with our systems.

Johnson Controls-Hitachi Air Conditioning Solutions

Information subject to change without notice. Contact your local Hitachi HVAC Dealer for detailed equipment specifications.

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Enjoy truly customized comfort



Impressive energy efficiency means never sacrificing comfort for savings

Hitachi Mini VRF Systems boast some of the highest efficiency ratings in the industry.

SEER up to 24.1

(Seasonal Energy Efficiency Ratio)

EER up to 16.7

(Energy Efficiency Ratio)

HSPF up to 12.8

(Heating Seasonal Performance Factor)



ENERGY STAR certified product (Only for 3 and 4 Ton)



Require online registration. Available for installation in residential applications at no additional cost.

MINI VRF HEAT PUMP OUTDOOR UNITS

208/230V HP | 3-, 4- & 5-TON Systems

3, 4 & 5 Ton Systems		Type			Mini VRF Outdoor Units					
		Tonnage			3 Ton		4 Ton		5 Ton	
Model					HVAHP036B21S		HVAHP048B21S		HVAHP060B21S	
Power Supply					208/230V/ 1PH 60Hz		208/230V/ 1PH 60Hz		208/230V/ 1PH 60Hz	
Capacity (Nominal)	Cooling	Capacity (Nominal)	Btu/h	(kW)	36,000	(10.6)	48,000	(14.1)	60,000	(17.6)
		Power input	kW		2.53		3.78		5.05	
		Current input	A		12.3 / 11.1		18.6 / 16.9		24.8 / 22.4	
	Heating	Capacity (Nominal)	Btu/h	(kW)	40,000	11.7	54,000	15.8	64,000	18.7
		Power input	kW		2.40		4.00		4.40	
		Current input	A		11.8 / 10.6		19.6 / 17.7		21.7 / 19.6	
Efficiency Ratings *	Cooling <i>(for Non-ducted and Ducted)</i>	Capacity (Rated)	Btu/h		36,000	36,000	48,000	48,000	60,000	55,000
		EER	Btu/Wh		16.70	13.70	16.10	13.10	12.20	9.60
		SEER	Btu/Wh		23.10	18.70	23.10	18.40	16.80	15.90
	Heating <i>(for Non-ducted and Ducted)</i>	Rated Capacity	Btu/h		40,000	40,000	54,000	54,000	64,000	64,000
		COP	W/W		5.12 / 3.90		4.56 / 3.86		3.90 / 3.30	
		HSPF	Btu/Wh		11.90	11.00	11.70	11.80	12.10	10.60
Cooling Operating Range**	Indoor	°F WB (°C WB)		59 (15) ~ 73 (23)		59 (15) ~ 73 (23)		59 (15) ~ 73 (23)		
	Outdoor	°F DB (°C DB)		23 (-5) ~ 118 (48)		23 (-5) ~ 118 (48)		23 (-5) ~ 118 (48)		
Heating Operating Range**	Indoor	°F DB (°C DB)		59 (15) ~ 80 (27)		59 (15) ~ 80 (27)		59 (15) ~ 80 (27)		
	Outdoor	°F WB (°C WB)		-4 (-20) ~ 59 (15)		-4 (-20) ~ 59 (15)		-4 (-20) ~ 59 (15)		
Outer Dimensions	Height	in	(mm)	54-5/16	(1380)	54-5/16	(1380)	54-5/16	(1380)	
	Width	in	(mm)	37-3/8	(950)	37-3/8	(950)	37-3/8	(950)	
	Depth	in	(mm)	14-9/16	(370)	14-9/16	(370)	14-9/16	(370)	
Package Dimensions	Height	in	(mm)	59-9/16	(1513)	59-9/16	(1513)	59-9/16	(1513)	
	Width	in	(mm)	40-3/8	(1025)	40-3/8	(1025)	40-3/8	(1025)	
	Depth	in	(mm)	18-1/8	(460)	18-1/8	(460)	18-1/8	(460)	
Weight	Net	lbs	(kg)	249	(113)	249	(113)	249	(113)	
	Gross	lbs	(kg)	267	(121)	267	(121)	267	(121)	
Connection Ratio	Connection Ratio Range	%		60-130		60-130		60-105		
	Max. (Recommendation) indoor units/system			6		8		8		
Heat Exchanger	Type	-		Multi-pass cross-finned tube						
	Material	-		Cu-Al (Anti-corrosion)						
Compressor	Type	-		HA36PHD-A1S2		HA36PHD-A1S2		A36PHD-A1S2		
	Motor Output (Pole)	- / -		3PH / 6		3PH / 6		3PH / 6		
	Start Method	-		Inverter						
	Operation Range	%		10 ~ 100		10 ~ 100		10 ~ 100		
	Refrigeration Oil Type	-		FVC68D		FVC68D		FVC68D		
Crank Case Heater	W×Q'ty		52W(208V) ×1		52W(208V) ×1		52W(208V) ×1			
Fan	Type	-		Propeller Fan		Propeller Fan		Propeller Fan		
	Motor Output (Pole)	W (Pole)		58(10) + 58(10)		58(10) + 58(10)		58(10) + 58(10)		
	Quantity	Q'ty		2						
	Air Flow Rate	cfm	(m³/min)	3177	(90)	3530	(100)	3530	(100)	
	Drive	-		Direct drive						
Electrical	Min Circuit Amps	A		31		31		31		
	Max. Overcurrent Protective Device	A		40						
Sound Pressure Level	Cooling (Night-Shift)	dB(A)		51	(44)	52	(46)	53	(46)	
	Heating	dB(A)		52		54		56		
Protection devices	Cycle	-		High pressure switch at 601psi (4.15MPa)						
	Compressor	-		Over-current protection		Over-heat protection		Circuit breaker (30A)		
	Fan Motor	-		Over-current protection		Over-heat protection		Self-contained fuse (5A)		
	PCB (Control Circuit)	-		Fuse on PCB(5A)						
Refrigerant	Type	-		R410A						
	Charge amount	lbs	(kg)	7.9	(3.6)	7.9	(3.6)	7.9	(3.6)	
Refrigeration Oil	Charge amount	gal/Unit	(kg/Unit)	0.34	(1.3)	0.34	(1.3)	0.34	(1.3)	
Defrost Method	-		Reversed refrigerant cycle							
Main Refrigerant Piping	Gas Line	in	(mm)	5/8	(15.88)	5/8	(15.88)	5/8	(15.88)	
	Liquid Line	in	(mm)	3/8	(9.52)	3/8	(9.52)	3/8	(9.52)	

NOTES:

* Efficiency ratings are based on the AHRI 210/240 test standard. ** For more detailed operation ranges, please consult Hitachi SmartFlex™ sales team or refer to product manuals.

TECHNICAL GUIDE

95.0% AFUE STANDARD ECM SINGLE STAGE MULTI-POSITION RESIDENTIAL GAS FURNACES

MODELS: RGF19*E

NATURAL GAS
40 - 120 MBH INPUT



PolyPro
InnoFlue
Polypropylene Vent Systems



Due to continuous product improvement, specifications are subject to change without notice.

Visit us on the web at
www.upgnet.com

Additional rating information can be found at
www.ahridirectory.org

WARRANTY SUMMARY

A 20-year limited warranty on heat exchangers in residential applications.

A 10-year warranty on the heat exchanger in commercial applications.

Standard 5-year limited Parts warranty.

Extended lifetime heat exchanger and 10-year limited parts warranty when product is registered online within 90 days of purchase for replacement or closing for new home construction.

See Limited Warranty certificate in Users Information Manual for details.

DESCRIPTION

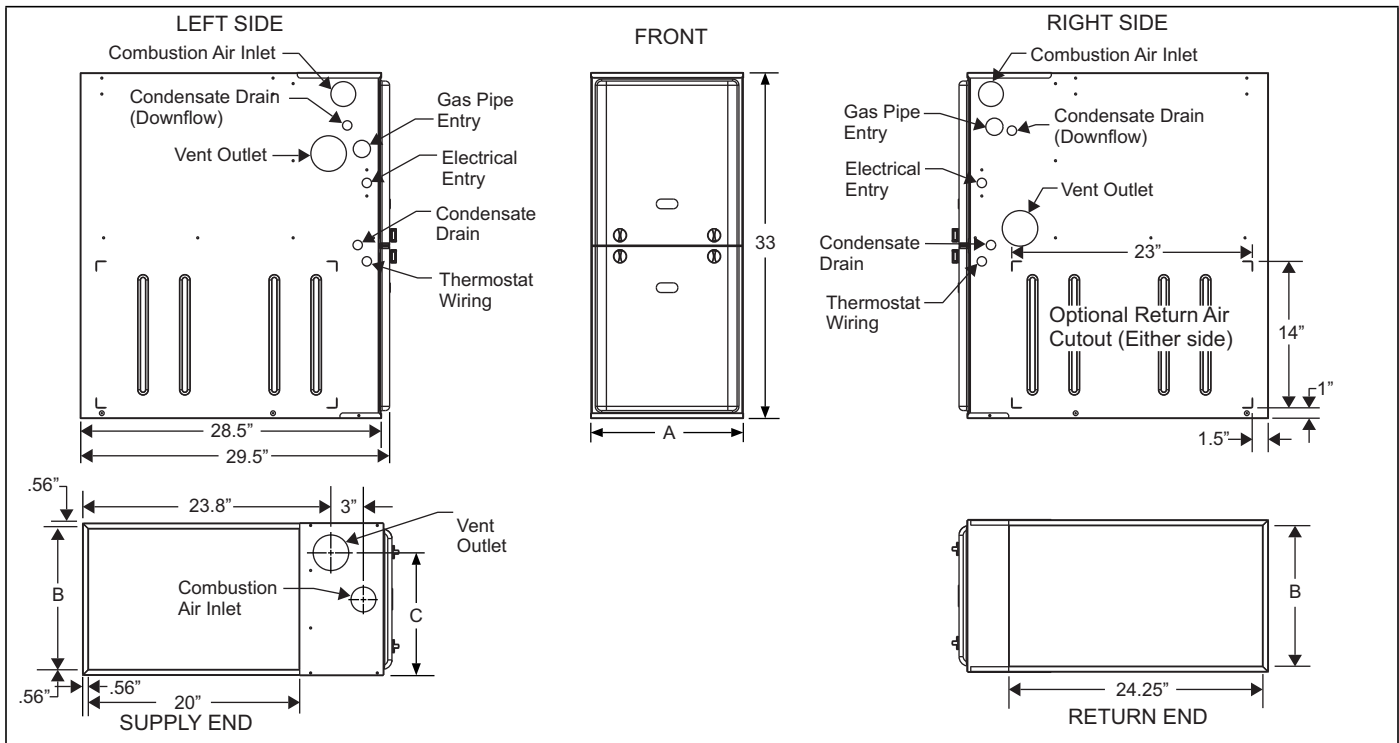
These compact units employ induced combustion, reliable hot surface ignition and high heat transfer aluminized tubular heat exchangers. The units are factory shipped for installation in upflow or horizontal applications and may be converted for downflow applications.

These furnaces are designed for residential installation in a basement, closet, alcove, attic, recreation room or garage and are also ideal for commercial applications. All units are factory assembled, wired and tested to assure safe dependable and economical installation and operation.

These units are Category IV, National Fuel Gas Code and may be vented either through side wall or roof applications using approved plastic combustion air and vent piping. Approved plastic combustion air and vent piping include Selkirk Polyflue, DuraVent Polypro, & Centrotherm InnoFlue polypropylene venting systems.

FEATURES

- Easily applied in upflow, horizontal left or right, or downflow installation with minimal conversion necessary.
- Compact, easy to install, ideal height 33" tall cabinet.
- Blower-off delay for cooling SEER improvement.
- Easy access to controls to connect power/control wiring.
- Built-in, high level self diagnostics with fault code displays standard on integrated control module for reliable operation.
- Low unit amp requirement for easy replacement application.
- The RGF19026AE Model is not convertible for use with propane (LP) gas. All other RGF19*E Models are field convertible to use propane (LP) gas with optional propane conversion kit accessory.
- Electronic Hot Surface Ignition saves fuel cost with increased dependability and reliability.
- 100% shut off main gas valve for extra safety.
- 5 speed, direct drive Standard ECM style high efficiency DC motor.
- 24V, 40 VA control transformer and blower relay supplied for add-on cooling.
- Hi-tech tubular aluminized steel primary heat exchanger.
- Secondary heat exchanger made of corrosion resistant stainless steel materials.
- Timed on, adjustable off blower capability for maximum comfort.
- Blower door safety switch.
- Airflow leakage less than 1% of nominal airflow at duct performance testing conditions.
- No knockouts to deal with, making installation easier.
- Movable duct connector flanges for application flexibility.
- Quiet inducer operation.
- Inducer rotates for easy conversion of venting options.
- Fully supported blower assembly for easy access and removal of blower.
- External air filters used for maximum flexibility in meeting customers IAQ needs.
- Protection included from air intake, exhaust vent, or condensate blockage.
- Patent pending self priming internal condensate trap design for easy installation.
- Venting applications - may be installed as either 2-pipe (sealed combustion) or single-pipe vent (using indoor combustion air).
- No special vent termination required.
- 1/4 turn knobs provided for easy door removal.
- High-efficiency blower motor for lower electrical power usage and improved A/C SEER ratings.
- Insulated blower compartment for terminal and acoustic performance.



Cabinet & Duct Dimensions

BTUH (kW) Input	Nominal CFM (m ³ /min)	Cabinet Size	Cabinet Dimensions (Inches)			Approximate Operating Weights
			A	B	C	Lbs
RGF19026AE08MP12	800	A	14 1/2	13 3/8	11 3/4	113
RGF19060BE12MP12	1200	B	17 1/2	16 3/8	13 1/4	122
RGF19080BE12MP12	1200	B	17 1/2	16 3/8	14 3/4	126
RGF19080CE16MP12	1600	C	21	19 7/8	16 1/2	136
RGF19100CE16MP12	1600	C	21	19 7/8	18 1/4	142
RGF19100CE20MP12	2000	C	21	19 7/8	18 1/4	145
RGF19120DE20MP12	2000	D	24 1/2	23 3/8	21 3/4	156

Ratings & Physical / Electrical Data

BTUH (kW) Input	Output	Nominal Airflow	AFUE	Air Temp. Rise	Max. Outlet Air Temp	Blower		Blower Size	Max Over-Current Protect	Total Unit Amps	Min. wire Size (awg) @ 75 ft one way
	MBH	CFM	%	°F	°F	HP	Amps				
RGF19026AE08MP12	26	25	96.0	25-55	190	1/3	4.4	11x8	15	7.1	14
RGF19060BE12MP12	60	57	95.5	30-60	190	1/2	6.8	11x8	15	9.5	14
RGF19080BE12MP12	80	76	95.5	40-70	190	1/2	6.8	11x8	15	9.5	14
RGF19080CE16MP12	80	76	95.5	35-65	190	1/2	6.8	11x10	15	9.5	14
RGF19100CE16MP12	100	95	95.5	40-70	190	1/2	6.8	11x10	15	9.5	14
RGF19100CE20MP12	100	95	95.5	35-65	190	3/4	8.4	11x11	15	10.9	14
RGF19120DE20MP12	120	114	95.5	45-75	190	3/4	8.4	11x11	15	10.9	14

NOTES:

Annual Fuel Utilization Efficiency (AFUE) numbers are determined in accordance with DOE Test procedures.
 Wire size and over current protection must comply with the National Electrical Code (NFPA-70-latest edition) and all local codes.
 The furnace shall be installed so that the electrical components are protected from water.

FILTER PERFORMANCE

The airflow capacity data published in the "Blower Performance" table shown represents blower performance WITHOUT filters.

All applications of these furnaces require the use of field installed air filters. All filter media and mounting hardware or provisions must be field installed external to the furnace cabinet. DO NOT attempt to install any filters inside the furnace.

NOTICE

Single side return above 1800 CFM is approved as long as the filter velocity does not exceed filter manufacturer's recommendation and a transition is used to allow use on a 20x25 filter.

Recommended Filter Sizes (High velocity 600 FPM)

CFM (m ³ /min)	Cabinet Size	Side (in)	Bottom (in)
800 (22.6)	A	16 x 25	14 x 25
1200 (34.0)	B	16 x 25	16 x 25
1600 (45.3)	C	16 x 25	20 x 25
2000 (56.6)	C	(2 ea) 16 x 25	20 x 25
2000 (56.6)	D	(2 ea) 16 x 25	22 x 25

NOTES:

- Air velocity through throwaway type filters may not exceed 300 feet per minute (91.4 m/min). All velocities over this require the use of high velocity filters.
- Do not exceed 1800 CFM using a single side return and a 16x25 filter. For CFM greater than 1800, you may use two side returns or one side and the bottom or one return with a transition to allow use of a 20x25 filter.

Unit Clearances to Combustibles

Application	Upflow	Downflow	Horizontal
Top	1"	0"	0"
Vent	0"	0"	0"
Rear	0"	0"	0"
Side*	0"	0"	1"
Front*	0"	0"	0"
Floor	Combustible	Combustible ¹	Combustible
Closet	Yes	Yes	Yes
Line Contact	No	No	Yes

NOTES:

- For combustible floors only when used with special sub-base.
- * - 24" clearance in front and 18" on side recommended for service access. All furnaces approved for alcove and attic installation.

ACCESSORIES

Propane (LP) Conversion Kit - This accessory conversion kit may be used to convert natural gas units for LP operation.

S1-1NP0347 - All Models except 26K

S1-1NP0820 - Same as S1-1NP0347 except includes stainless steel LP burners.

LP Stainless Steel Burner Kit - This accessory conversion kit may be used to convert existing burners to stainless steel burners for LP use only. Kit contains 6 burners. The 130K Model requires 1 extra burner (P/N S1-02926889000).

S1-32926889000 - All LP Models

Natural (NAT) Gas Stainless Steel Burner Kit - This accessory kit may be used to replace existing burners with stainless steel burners for NAT gas use only. Kit contains 6 burners. The 130K Model requires 1 extra burner (P/N S1-02924441000).

S1-32924441000 - All NAT gas Models

Concentric Vent Termination - For use through rooftop, side-wall. Allows combustion air to enter and exhaust to exit through single common hole. Eliminates unsightly elbows for a cleaner installation.

S1-1CT0302 (2") & S1-1CT0302-636 (2")

S1-1CT0303 (3") & S1-1CT0303-636 (3")

Sidewall Vent Termination Kit - For use on sidewall, two-pipe installations only. Provide a more attractive termination for locations where the terminal is visible on the side of the home.

S1-1HT0901 (3")

S1-1HT0902 (2")

Condensate Neutralizer Kit - Neutralizer cartridge has a 1/2" plastic tube fittings for installation in the drain line. Calcium carbonate refill media is also available from the Source 1 Parts (P/N 026-30228-000).

S1-1NK0301

Side Return Filter Racks - The S1-1SR0200 Kit accommodates a 1", 2" or 4" filter. The S1-1SR0402 Kit accommodates a 1" filter only.

S1-1SR0200 - All Models

S1-1SR0402 - All Models

Bottom Return Filter Racks - The S1-1BR05* series are galvanized steel filter racks. The S1-1BR06* series are pre-painted steel filter racks to match the appearance of the furnace cabinet. The S1-1BR05* and S1-1BR06* series filter racks accommodate a 1", 2" or 4" filter.

S1-1BR0517 or S1-1BR0617 - For 17-1/2" cabinets

S1-1BR0521 or S1-1BR0621 - For 21" cabinets

S1-1BR0524 or S1-1BR0624 - For 24-1/2" cabinets

Combustible Floor Base Kit - These kits are required to prevent potential overheating situations when the furnaces are installed in downflow applications directly onto combustible flooring material. These kits are also required in any applications where the furnace is installed in a downflow configuration without an indoor coil and where the combustible floor base kit provides access for combustible airflow.

S1-1CB0517 - For 17-1/2" cabinets

S1-1CB0521 - For 21" cabinets

S1-1CB0524 - For 24-1/2" cabinets

High Altitude Pressure Switches - For installation where the altitude is less than 5,000 feet, it is not required that the pressure switch be changed. For altitudes above 5,000 feet, see kits below.

S1-1PS3306 - 060

S1-1PS3307 - 026, 040, 080

S1-1PS3302 - 100, 120

Thermostats - Compatible thermostat controls are available through accessory sourcing. For optimum performance, these outdoor units are fully compatible with our residential touch screen thermostat with proprietary (patent-pending) hexagon interface. For more information, see the thermostat section of the Product Equipment Catalog.

S1-THXU280 - All Models

Blower Performance CFM - Any Position (without filter)

Models	Speed	Bottom Airflow Data (SCFM)									
		Ext. Static Pressure (in. H2O)									
		0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
RGF19026AE08MP12	High	955	928	895	862	829	797	765	730	690	665
	Medium High	766	731	696	656	626	589	557	532	497	469
	Medium	665	625	586	554	518	482	449	419	NR	NR
	Medium Low	630	594	560	520	483	451	419	NR	NR	NR
	Low	562	514	474	435	395	365	NR	NR	NR	NR
RGF19060BE12MP12	High	1402	1374	1354	1328	1299	1262	1222	1167	1107	1036
	Medium High	1252	1233	1203	1182	1150	1125	1095	1064	1031	980
	Medium	1076	1059	1029	1007	973	946	908	883	843	800
	Medium Low	988	967	936	903	875	838	806	765	737	685
	Low	798	769	727	695	650	619	574	517	485	443
RGF19080BE12MP12	High	1445	1423	1397	1365	1339	1311	1283	1250	1204	1140
	Medium High	1282	1266	1232	1211	1182	1157	1128	1097	1069	1013
	Medium	1098	1084	1059	1027	998	967	939	910	879	822
	Medium Low	1012	993	953	930	894	851	828	773	752	692
	Low	865	810	763	730	689	628	594	520	496	448
RGF19080CE16MP12	High	1713	1682	1643	1600	1558	1519	1480	1436	1385	1333
	Medium High	1554	1519	1485	1439	1404	1368	1327	1280	1176	1130
	Medium	1380	1351	1302	1263	1224	1171	1128	1085	1030	943
	Medium Low	1177	1142	1083	1050	988	922	890	819	798	687
	Low	951	841	650	588	457	418	355	227	203	N / A
RGF19100CE16MP12	High	1734	1694	1650	1611	1570	1536	1485	1438	1392	1335
	Medium High	1568	1537	1492	1453	1414	1373	1327	1279	1230	1118
	Medium	1420	1380	1332	1294	1249	1196	1152	1100	981	938
	Medium	1218	1169	1124	1067	1015	965	894	845	754	679
	Low	979	846	647	580	464	427	345	220	195	N / A
RGF19100CE20MP12	High	2143	2102	2065	2028	1989	1944	1892	1825	1733	1625
	Medium High	1788	1749	1718	1672	1629	1587	1541	1500	1447	1355
	Medium	1575	1539	1500	1456	1410	1363	1305	1246	1095	1030
	Medium Low	1372	1325	1276	1225	1170	1111	1044	972	884	812
	Low	1031	921	810	728	660	615	518	474	391	355
RGF19120DE20MP12	High	2214	2173	2132	2086	2036	1994	1952	1907	1849	1777
	Medium High	1841	1799	1749	1699	1659	1611	1567	1520	1471	1372
	Medium	1605	1562	1514	1470	1416	1361	1310	1180	1119	1045
	Medium Low	1405	1362	1303	1244	1189	1125	1054	986	876	826
	Low	1135	1020	844	758	671	557	511	464	387	N / A

NOTES:

1. Airflow expressed in standard cubic feet per minute (CFM).
2. Motor voltage at 115 V.

Job Name:	
Tag#	



Submittal Data Sheet	3MXS24RMVJU
3 Port, 2-Ton Outdoor Heat Pump	



Efficiency				
	SEER	EER	HSPF	COP
Non-Ducted	18	12.7	12.5	3.53
Ducted	14	9.7	8.2	3.44
Mixed	15.95	11.2	10.35	3.49

Performance	
Cooling (Btu/hr)	
Rated	24,000
Operating Range	14°F – 115°F
Rated Cooling Conditions: Indoor: 80°F DB/67°F WB Outdoor: 95°F DB/75°F WB	
Heating (Btu/hr)	
Rated	24,000
Operating Range	5°F – 60°F
Rated Heating Conditions: Indoor: 70°F DB/60°F WB Outdoor: 47°F DB/43°F WB	

Complete warranty details available from your local dealer or at www.daikincomfort.com. To receive the 12-Year Parts Limited Warranty, online registration must be completed within 60 days of installation. Online registration is not required in California or Quebec. *If product is installed in a commercial application, limited warranty period is 5 years.*

Electrical		
	208/60/1	230/60/1
System MCA	21.9	21.9
System MFA	25	25
Compressor RLA	15.5	15.5
Outdoor fan motor FLA	.25	25
Outdoor fan motor W	73	73

MFA: Max. fuse amps **MCA:** Min. circuit amps (A) **FLA:** Full load amps (A)
RLA: Rated load amps (A) **W:** Fan motor rated output (W)

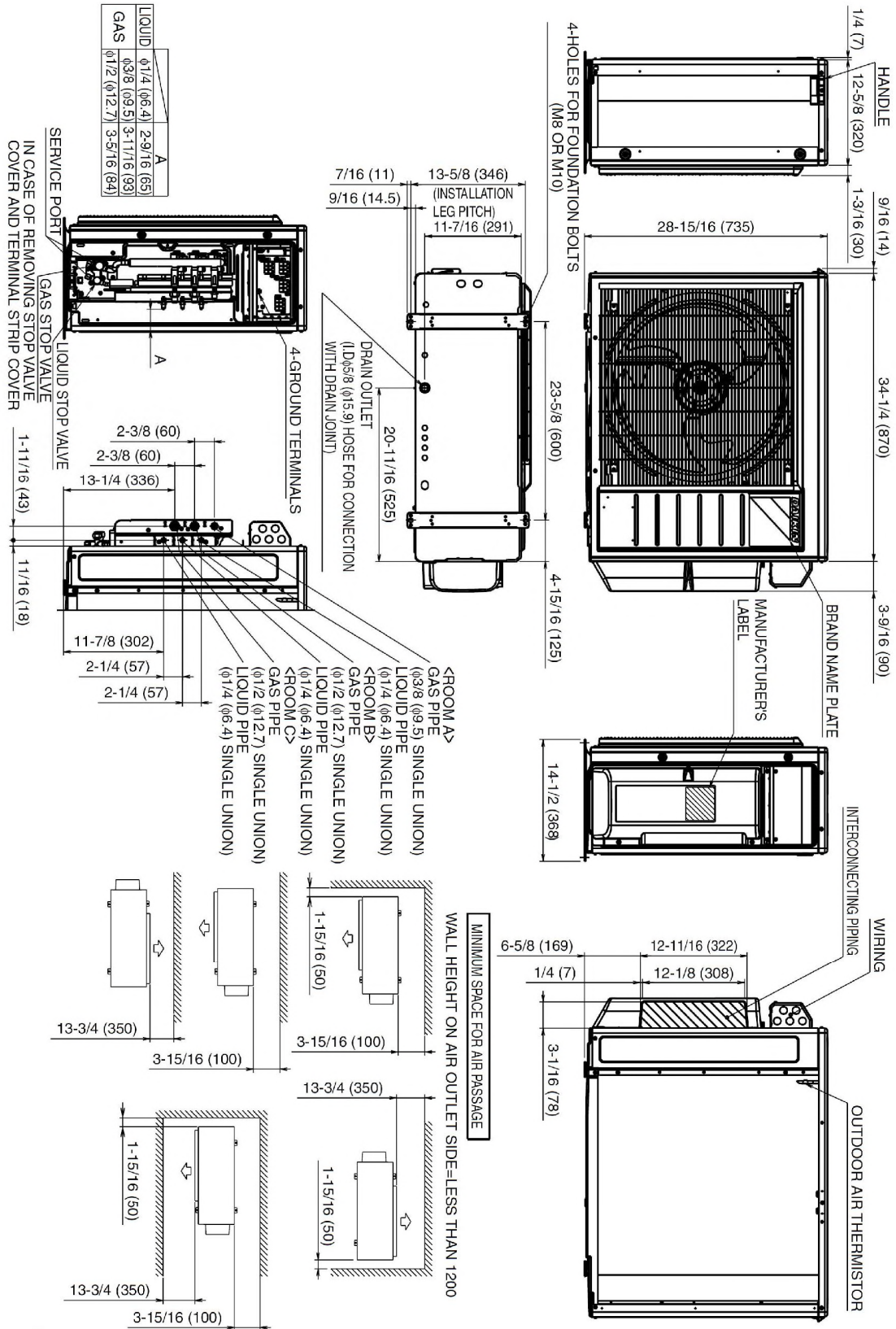
Outdoor Specifications				
Compressor	Hermetically Sealed Swing Type			
Refrigerant	R-410A			
Factory Charge (Lbs)	6.17			
Refrigerant Oil	PVE (FVC50K)			
Airflow Rate (cfm)	Cooling		Heating	
	H	2,094	H	2,094
	M	2,094	M	1,981
	L	1,981	L	1,119
Sound Pressure Level (dBA)	52 / 54			
Dimensions (H x W x D) (in)	28-15/16 x 34-1/4 x 12-5/8			
Weight (Lbs)	137			

Piping	
Liquid (in)	¼ x 3
Gas (in)	3/8 x 1, ½ x 2
Drain (in)	11/16
Max. System Piping Length (ft)	230
Max. Interunit Piping Length (ft)	82
Max. Height Difference – IDU to ODU (ft)	49.25
Max Height Difference – IDU to IDU	24.625
Chargeless (ft)	131.6
Additional Charge of Refrigerant (oz/ft)	.21

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3MXS24RMVJU Dimensional Data



C: 3D093198

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Included	Part Number	Description
	DACA-WB-3	Mounting Bracket
	KEH063A4E	Drain Pan Heater 2/3/4MXS & 2/3MXL
	KPW063A4	Air Adjustment Grille
	KKG063A42	Back protection wire net
	KKG063A43	Side protection wire net
	KPS063A41	Snow hood (intake side plate)
	KPS063A44	Snow hood (intake rear plate)
	KPS063A47	Snow hood (outlet)

Non- Ducted, 60 Hz, 208-230V

Combination of indoor unit	Cooling Capacity of each indoor unit				Heating Capacity of each indoor unit	
	Each Capacity				Total Indoor Unit Capacity	
	A room	B room	C room	D room	Rating	(min ~ max)
07	7.60	—	—	—	7.60	7.30 ~ 8.40
	8.80	—	—	—	8.80	8.70 ~ 9.70
09	9.80	—	—	—	9.80	7.40 ~ 10.80
	11.30	—	—	—	11.30	10.00 ~ 12.50
12	13.00	—	—	—	13.00	7.50 ~ 14.40
	15.00	—	—	—	15.00	9.90 ~ 16.70
15	16.30	—	—	—	16.30	8.90 ~ 18.00
	18.80	—	—	—	18.80	9.40 ~ 20.80
18	19.50	—	—	—	19.50	8.90 ~ 21.60
	22.50	—	—	—	22.50	9.40 ~ 25.00
07+07	7.60	7.60	—	—	15.20	8.90 ~ 16.80
	8.75	8.75	—	—	17.50	9.30 ~ 19.40
07+09	7.69	9.61	—	—	17.30	8.90 ~ 19.20
	8.89	11.11	—	—	20.00	9.20 ~ 22.20
07+12	7.31	12.79	—	—	20.10	9.00 ~ 22.80
	8.25	14.45	—	—	22.70	9.10 ~ 26.60
07+15	6.31	15.79	—	—	22.10	10.00 ~ 26.40
	6.69	16.71	—	—	23.40	8.70 ~ 31.30
07+18	6.00	18.00	—	—	24.00	10.10 ~ 30.00
	6.00	18.00	—	—	24.00	8.70 ~ 36.00
09+09	9.75	9.75	—	—	19.50	9.00 ~ 21.60
	11.25	11.25	—	—	22.50	9.10 ~ 25.00
09+12	8.92	12.48	—	—	21.40	9.10 ~ 25.20
	9.63	13.48	—	—	23.10	9.00 ~ 29.70
09+15	7.80	15.60	—	—	23.40	10.10 ~ 28.80
	7.93	15.87	—	—	23.80	9.70 ~ 34.40
09+18	7.06	16.94	—	—	24.00	10.10 ~ 30.00
	7.06	16.94	—	—	24.00	8.60 ~ 36.00
12+12	11.70	11.70	—	—	23.40	9.20 ~ 28.80
	11.90	11.90	—	—	23.80	9.00 ~ 34.40
12+15	9.88	14.12	—	—	24.00	10.20 ~ 30.00
	9.88	14.12	—	—	24.00	8.60 ~ 36.00
12+18	8.84	15.16	—	—	24.00	10.20 ~ 30.00
	8.84	15.16	—	—	24.00	8.60 ~ 36.00
15+15	12.00	12.00	—	—	24.00	10.80 ~ 30.00
	12.00	12.00	—	—	24.00	8.40 ~ 36.00
15+18	10.91	13.09	—	—	24.00	10.80 ~ 30.00
	10.91	13.09	—	—	24.00	8.40 ~ 36.00
18+18	12.00	12.00	—	—	24.00	10.90 ~ 30.00
	12.00	12.00	—	—	24.00	8.30 ~ 36.00
07+07+07	7.13	7.13	7.13	—	21.40	10.00 ~ 25.20
	7.70	7.70	7.70	—	23.10	8.60 ~ 29.70
07+07+09	6.98	6.98	8.73	—	22.70	10.10 ~ 27.60
	7.26	7.26	9.08	—	23.60	8.60 ~ 32.90
07+07+12	6.40	6.40	11.19	—	24.00	10.10 ~ 30.00
	6.40	6.40	11.20	—	24.00	8.50 ~ 36.00
07+07+15	5.33	5.33	13.33	—	24.00	10.80 ~ 30.00
	5.33	5.33	13.32	—	24.00	8.30 ~ 36.00
07+07+18	4.80	4.80	14.40	—	24.00	10.80 ~ 30.00
	4.80	4.80	14.40	—	24.00	8.30 ~ 36.00
07+09+09	6.86	8.57	8.57	—	24.00	10.10 ~ 30.00
	6.85	8.57	8.57	—	24.00	8.50 ~ 36.00
07+09+12	6.00	7.50	10.49	—	24.00	10.20 ~ 30.00
	6.00	7.50	10.50	—	24.00	8.50 ~ 36.00
07+09+15	5.05	6.32	12.63	—	24.00	10.90 ~ 30.00
	5.05	6.32	12.63	—	24.00	8.30 ~ 36.00
07+09+18	4.57	5.71	13.71	—	24.00	10.90 ~ 30.00
	4.57	5.71	13.71	—	24.00	8.30 ~ 36.00

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3MXS24RMVJU Capacity Tables



Combination of indoor unit	Cooling Capacity of each indoor unit				Heating Capacity of each indoor unit	
	Each Capacity				Total Indoor Unit Capacity	
	A room	B room	C room	D room	Rating	(min ~ max)
07+12+12	5.33	9.33	9.33	—	24.00	10.30 ~ 30.00
	5.34	9.33	9.33	—	24.00	8.40 ~ 36.00
07+12+15	4.57	8.00	11.43	—	24.00	10.90 ~ 30.00
	4.57	8.00	11.42	—	24.00	8.30 ~ 36.00
07+12+18	4.17	7.30	12.52	—	24.00	10.90 ~ 30.00
	4.17	7.30	12.52	—	24.00	8.30 ~ 36.00
07+15+15	4.01	10.00	10.00	—	24.00	11.20 ~ 30.00
	3.99	10.00	10.00	—	24.00	8.20 ~ 36.00
09+09+09	8.00	8.00	8.00	—	24.00	10.20 ~ 30.00
	8.00	8.00	8.00	—	24.00	8.50 ~ 36.00
09+09+12	7.06	7.06	9.89	—	24.00	10.30 ~ 30.00
	7.06	7.06	9.88	—	24.00	8.40 ~ 36.00
09+09+15	6.00	6.00	12.00	—	24.00	10.90 ~ 30.00
	6.00	6.00	11.99	—	24.00	8.30 ~ 36.00
09+09+18	5.45	5.45	13.10	—	24.00	10.90 ~ 30.00
	5.45	5.45	13.08	—	24.00	8.30 ~ 36.00
09+12+12	6.32	8.84	8.84	—	24.00	10.30 ~ 30.00
	6.31	8.84	8.84	—	24.00	8.40 ~ 36.00
09+12+15	5.45	7.64	10.91	—	24.00	10.90 ~ 30.00
	5.45	7.64	10.91	—	24.00	8.20 ~ 36.00
09+12+18	5.00	7.00	12.00	—	24.00	10.90 ~ 30.00
	5.00	7.00	12.00	—	24.00	8.20 ~ 36.00
09+15+15	4.80	9.60	9.60	—	24.00	11.20 ~ 30.00
	4.80	9.60	9.60	—	24.00	8.20 ~ 36.00
12+12+12	8.00	8.00	8.00	—	24.00	10.40 ~ 30.00
	8.00	8.00	8.00	—	24.00	8.40 ~ 36.00
12+12+15	7.00	7.00	10.01	—	24.00	11.00 ~ 30.00
	7.00	7.00	10.00	—	24.00	8.20 ~ 36.00

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Ducted, 60 Hz, 208-230V

Combination of indoor unit	Cooling Capacity of each indoor unit				Heating Capacity of each indoor unit	
	Each Capacity				Total Indoor Unit Capacity	
	A room	B room	C room	D room	Rating	(min ~ max)
7	7.1	—	—	—	7.1	7.30 - 7.10
	8.3	—	—	—	8.3	9.00 - 9.70
09	9.1	—	—	—	9.1	7.30 - 9.60
	10.7	—	—	—	10.7	10.40 - 12.50
12	12.1	—	—	—	12.1	7.30 - 12.10
	14.3	—	—	—	14.3	10.40 - 16.70
15	14.8	—	—	—	14.8	8.10 - 15.40
	16.6	—	—	—	16.6	10.10 - 20.80
18	17.6	—	—	—	17.6	8.10 - 18.80
	18.9	—	—	—	18.9	10.10 - 25.00
07+07	6.95	6.95	—	—	13.9	8.80 - 14.30
	7.9	7.9	—	—	15.8	9.60 - 19.40
07+09	7.02	8.78	—	—	15.8	8.80 - 16.60
	7.73	9.67	—	—	17.4	9.60 - 22.20
07+12	6.73	11.77	—	—	18.5	8.80 - 19.90
	7.13	12.47	—	—	19.6	9.60 - 25.90
07+15	6.09	15.21	—	—	21.3	9.40 - 23.30
	6.23	15.57	—	—	21.8	9.40 - 28.40
07+18	6	18	—	—	24	9.40 - 26.60
	6	17.99	—	—	24	9.40 - 31.00
09+09	8.8	8.8	—	—	17.6	8.80 - 18.80
	11.05	11.05	—	—	22.1	9.60 - 25.00
09+12	8.45	11.84	—	—	20.3	8.80 - 22.10
	8.79	12.3	—	—	21.1	9.60 - 27.60
09+15	7.7	15.4	—	—	23.1	9.40 - 25.50
	7.77	15.53	—	—	23.3	9.40 - 30.10
09+18	7.06	16.94	—	—	24	9.40 - 27.00
	7.06	16.94	—	—	24	9.40 - 32.00
12+12	11.55	11.55	—	—	23.1	8.80 - 25.50
	11.65	11.65	—	—	23.3	9.60 - 30.10
12+15	9.88	14.12	—	—	24	9.40 - 27.00
	9.88	14.12	—	—	24	9.40 - 32.00
12+18	8.84	15.16	—	—	24	9.40 - 27.00
	8.84	15.16	—	—	24	9.40 - 32.00
15+15	12	12	—	—	24	9.90 - 27.00
	12	12	—	—	24	9.10 - 32.00
15+18	10.91	13.09	—	—	24	9.90 - 27.00
	10.91	13.09	—	—	24	9.10 - 32.00
18+18	12	12	—	—	24	9.90 - 27.00
	12	12	—	—	24	9.10 - 32.00
07+07+07	6.77	6.77	6.77	—	20.3	9.90 - 22.10
	7.03	7.03	7.03	—	21.1	9.00 - 27.60
07+07+09	6.83	6.83	8.54	—	22.2	9.90 - 24.40
	6.92	6.92	8.65	—	22.5	9.00 - 29.30
07+07+12	6.4	6.4	11.19	—	24	9.90 - 26.60
	6.4	6.4	11.19	—	24	9.00 - 31.10
07+07+15	5.33	5.33	13.33	—	24	10.40 - 26.70
	5.33	5.33	13.32	—	24	8.80 - 31.40
07+07+18	4.8	4.8	14.4	—	24	10.40 - 26.90
	4.8	4.8	14.4	—	24	8.80 - 31.60
07+09+09	6.86	8.57	8.57	—	24	9.90 - 26.60
	6.86	8.57	8.57	—	24	9.00 - 31.00
07+09+12	6	7.5	10.5	—	24	9.90 - 26.70
	6	7.5	10.5	—	24	9.00 - 31.30

3MXS24RMVJU Capacity Tables



Combination of indoor unit	Cooling Capacity of each indoor unit				Heating Capacity of each indoor unit	
	Each Capacity				Total Indoor Unit Capacity	
	A room	B room	C room	D room	Rating	(min ~ max)
07+09+15	5.05	6.32	12.63	—	24	10.40 - 26.80
	5.05	6.32	12.63	—	24	8.80 - 31.50
07+09+18	4.57	5.71	13.71	—	24	10.40 - 26.90
	4.57	5.71	13.7	—	24	8.80 - 31.80
07+12+12	5.33	9.33	9.33	—	24	9.90 - 26.80
	5.32	9.33	9.33	—	24	9.00 - 31.50
07+12+15	4.57	8	11.43	—	24	10.40 - 26.90
	4.57	8	11.43	—	24	8.80 - 31.80
07+12+18	4.17	7.3	12.53	—	24	10.40 - 27.00
	4.17	7.3	12.51	—	24	8.80 - 32.10
07+15+15	4.01	10	10	—	24	10.70 - 27.00
	4	10	10	—	24	8.60 - 32.10
09+09+09	8	8	8	—	24	9.90 - 27.00
	8	8	8	—	24	9.00 - 32.00
09+09+12	7.06	7.06	9.88	—	24	9.90 - 27.00
	7.06	7.06	9.87	—	24	9.00 - 32.00
09+09+15	6	6	12	—	24	10.40 - 27.00
	6	6	12	—	24	8.80 - 32.00
09+09+18	5.45	5.45	13.1	—	24	10.40 - 27.00
	5.45	5.45	13.09	—	24	8.80 - 32.00
09+12+12	6.32	8.84	8.84	—	24	9.90 - 27.00
	6.33	8.84	8.84	—	24	9.00 - 32.00
09+12+15	5.45	7.64	10.91	—	24.00	10.40 ~ 27.00
	5.45	7.64	10.91	—	24	8.80 - 32.00
09+12+18	5.00	7.00	12.00	—	24.00	10.40 ~ 27.00
	5	7	12	—	24	8.80 - 32.30
09+15+15	4.80	9.60	9.60	—	24.00	10.70 ~ 27.00
	4.8	9.6	9.6	—	24	8.60 - 32.30
12+12+12	8.00	8.00	8.00	—	24.00	9.90 ~ 27.00
	8	8	8	—	24	9.00 - 32.00
12+12+15	7.00	7.00	10.00	—	24.00	10.40 ~ 27.00
	7	7	10	—	24	8.80 - 32.30

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Job Name:	
Tag#	



Submittal Data Sheet

FTXS12LVJU / RXS12LVJU

1-Ton Wall Mounted Heat Pump System



Complete warranty details available from your local dealer or at www.daikincomfort.com. To receive the 12-Year Parts Limited Warranty, online registration must be completed within 60 days of installation. Online registration is not required in California or Quebec. *If product is installed in a commercial application, limited warranty period is 5 years.*

Indoor Specifications

Airflow Rate (cfm)	Cooling		Heating	
	H	M	H	M
	L	SL	L	SL
	403	307	438	335
	205	155	240	212
Sound (dBA) H / M / L / SL	45 / 37 / 29 / 23		45 / 39 / 29 / 26	
Dimensions (H x W x D) (in)	11-5/8 x 31-1/2 x 8-7/16			
Weight (Lbs)	22			

Outdoor Specifications

Compressor	Hermetically Sealed Swing Type			
Refrigerant	R-410A			
Refrigerant Oil	PVE (FVC50K)			
Airflow Rate (cfm)	Cooling		Heating	
	H	M	H	M
	L	SL	L	SL
	1,183	989	992	840
Sound Power Level (dBA)	63			
Dimensions (H x W x D) (in)	21-5/8 x 30-1/8 x 11-1/4			
Weight (Lbs)	75			

Efficiency

Cooling		Heating	
SEER	23	HSPF	12.5
EER	12.8	COP	4.35

Performance

Cooling (Btu/hr)	
Rated (Min/Max)	12,000 (4,800 / 12,000)
Sensible @ AHRI	9,250
Moisture Removal gal/h	.5
Operating Range	50°F – 115°F

Rated Cooling Conditions: Indoor: 80°F DB/67°F WB
Outdoor: 95°F DB/75°F WB

Heating (Btu/hr)	
1: @ 47° Rated (Min/Max)	14,400 (4,400 / 14,400)
2: @ 17° Rated	9,200
3: @ 5° Max	6,430
Operating Range	5°F – 65°F

1: Rated Heating Conditions: Indoor: 70°F DB/60°F WB
Outdoor: 47°F DB/43°F WB
2: Rated Heating Conditions: Indoor: 70°F DB/60°F WB
Outdoor: 17°F DB/15°F WB
3: Rated Heating Conditions: Indoor: 70°F DB/60°F WB
Outdoor: 5°F DB/5°F WB

Electrical

	208/60/1	230/60/1
System MCA	8.75	8.75
System MFA	15	15
Compressor RLA	4.4	3.9
Outdoor fan motor FLA	.22	.22
Outdoor fan motor W	23	23
Indoor fan motor FLA	.15	.15
Indoor fan motor W	23	23

MFA: Max. fuse amps MCA: Min. circuit amps (A) FLA: Full load amps (A)
RLA: Rated load amps (A) W: Fan motor rated output (W)

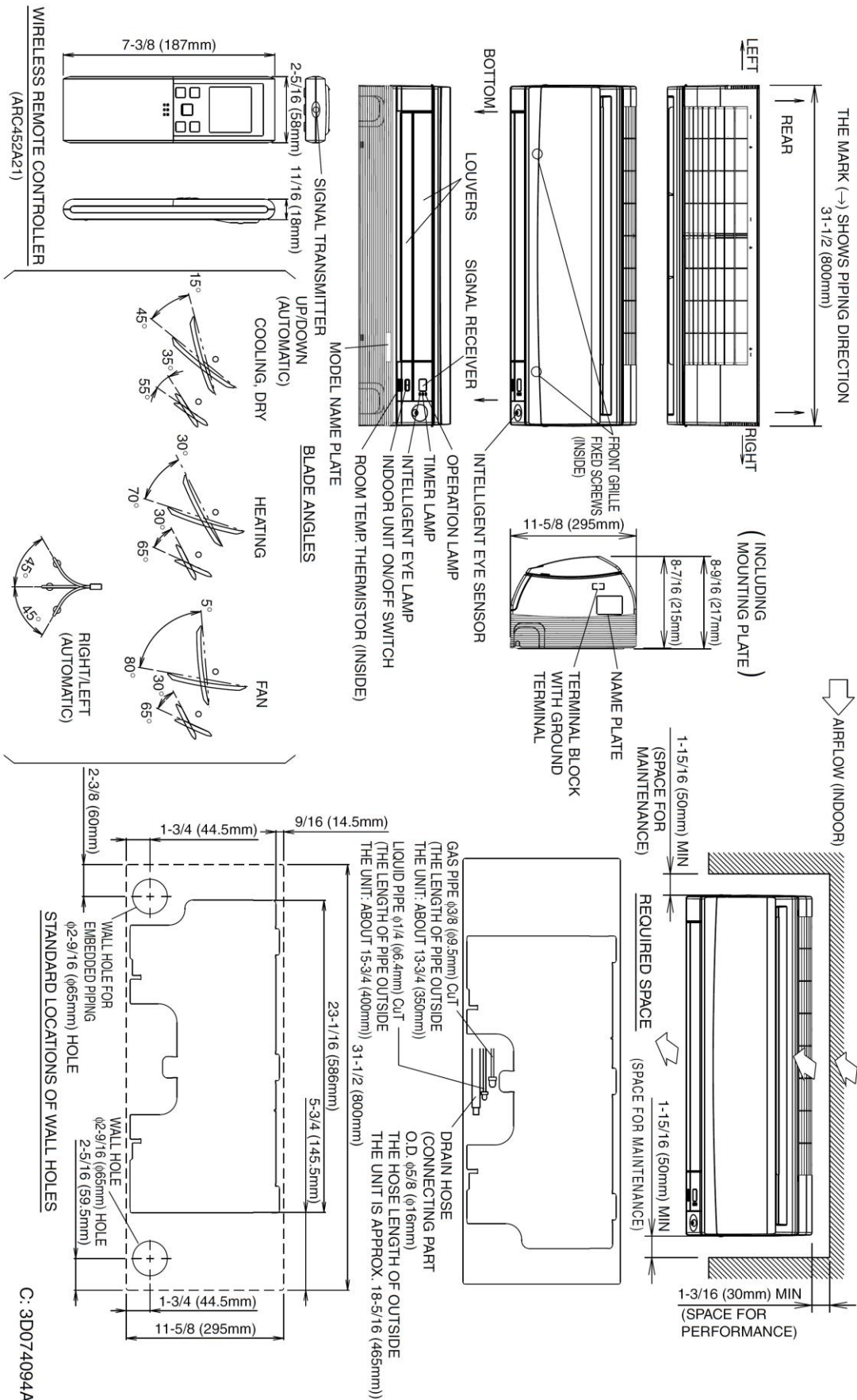
Piping

Liquid (in)	1/4
Gas (in)	3/8
Drain (in)	5/8
Max. Interunit Piping Length (ft)	65.6
Max. Interunit Height Difference (ft)	49.2
Chargeless (ft)	32.8
Additional Charge of Refrigerant (oz/ft)	.21

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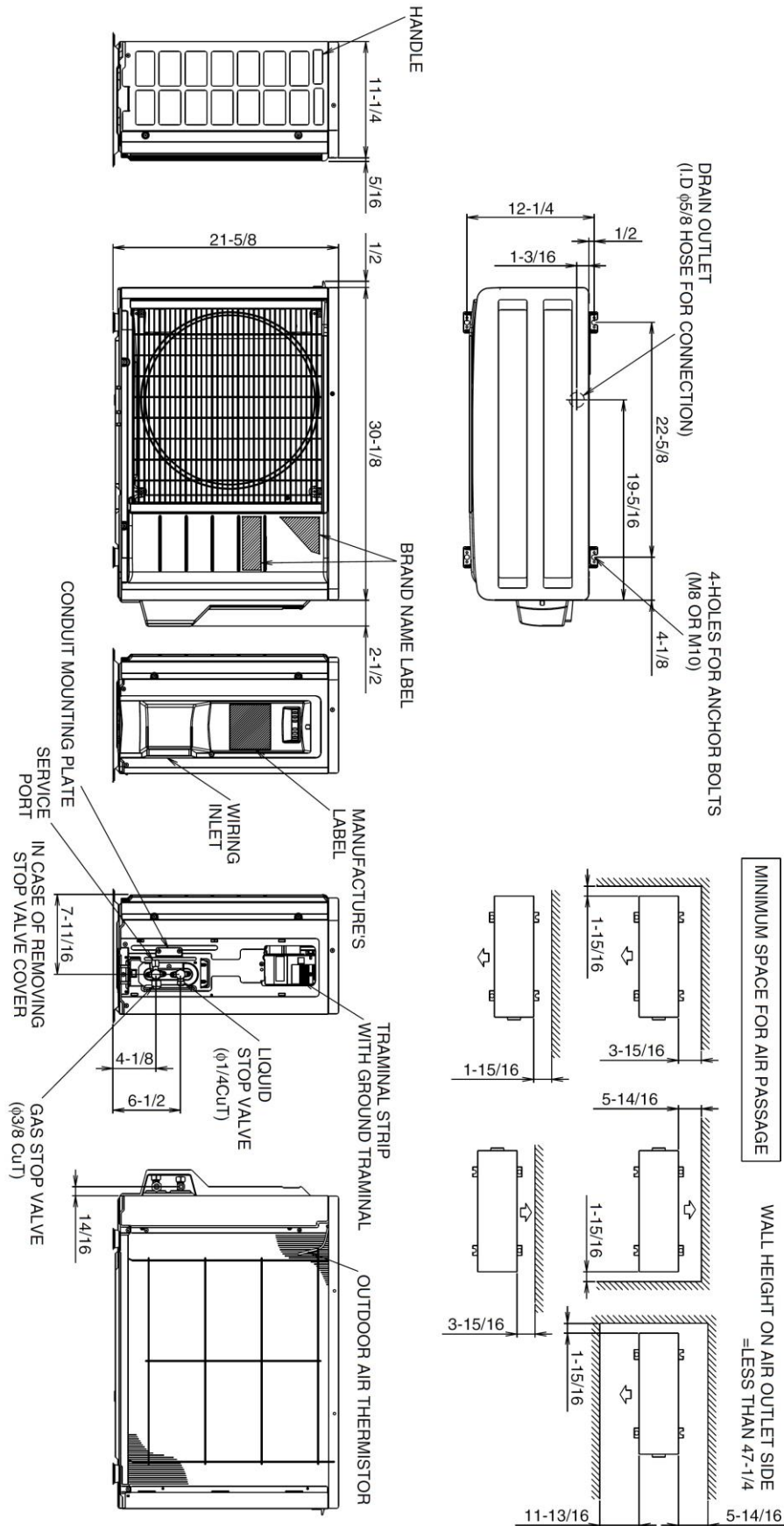
FTXS12LVJU Dimensional Data



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RXS12LVJU Dimensional Data



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Indoor Unit		
Included	Part Number	Description
	BRP072A43	Wireless Interface Adapter
	BRC944B2-A08	Wired Remote Controller
	BRCW901A08	Wired Remote Controller Cord - 3m
	DACA-BRCW901P10	Remote Controller Cable, Plenum Rated, 10 ft
	DACA-BRCW901P25	Remote Controller Cable, Plenum Rated, 25 ft
	DACA-TS1-1	Daikin ENVi Intelligent Thermostat Kit
	DACA-CP1-1	Inline Condensate Pump (Fits inside all Daikin wall & floor mount units)
	DACA-CP4-1	External Condensate Pump
	KRP928BB2S	Interface Adaptor for DIII-NET

Description		
Included	Part Number	Description
	DACA-WB-3	Powder-Coated Wall-Mounted Bracket
	KEH041A41	Drain Pan Heater RXS09_12LV
	KKP937A4	Drain Plug for OD Unit
	KPW937C4	Low Ambient Wind Baffle / Air Adjustment Grille (09/12 MBH)

Job Name:	
Tag#	



Submittal Data Sheet	CTXS07LVJU
.5-Ton Wall Mounted Indoor Unit	



Indoor Specifications				
	Cooling		Heating	
	H	M	H	M
Airflow Rate (cfm)	332	261	350	290
	L	SL	L	SL
	194	145	233	219
Sound (dBA) H / M / L / SL	38 / 32 / 25 / 22		38 / 33 / 28 / 25	
Dimensions (H x W x D) (in)	11-5/8 x 31-1/2 x 8-7/16			
Weight (Lbs)	20			
Nominal Capacity (Btu/hr)	7,000			

*See Outdoor Unit for Rated Capacities

Complete warranty details available from your local dealer or at www.daikincomfort.com. To receive the 12-Year Parts Limited Warranty, online registration must be completed within 60 days of installation. Online registration is not required in California or Quebec. *If product is installed in a commercial application, limited warranty period is 5 years.*

Piping	
Liquid (in)	1/4
Gas (in)	3/8
Drain (in)	5/8

	Electrical	
	Cooling	Heating
Running Current (Rated) (A)	.09/.08*	.11/.10*
Power Consumption (Rated) (W)	18/18*	21/21*

*208/230V

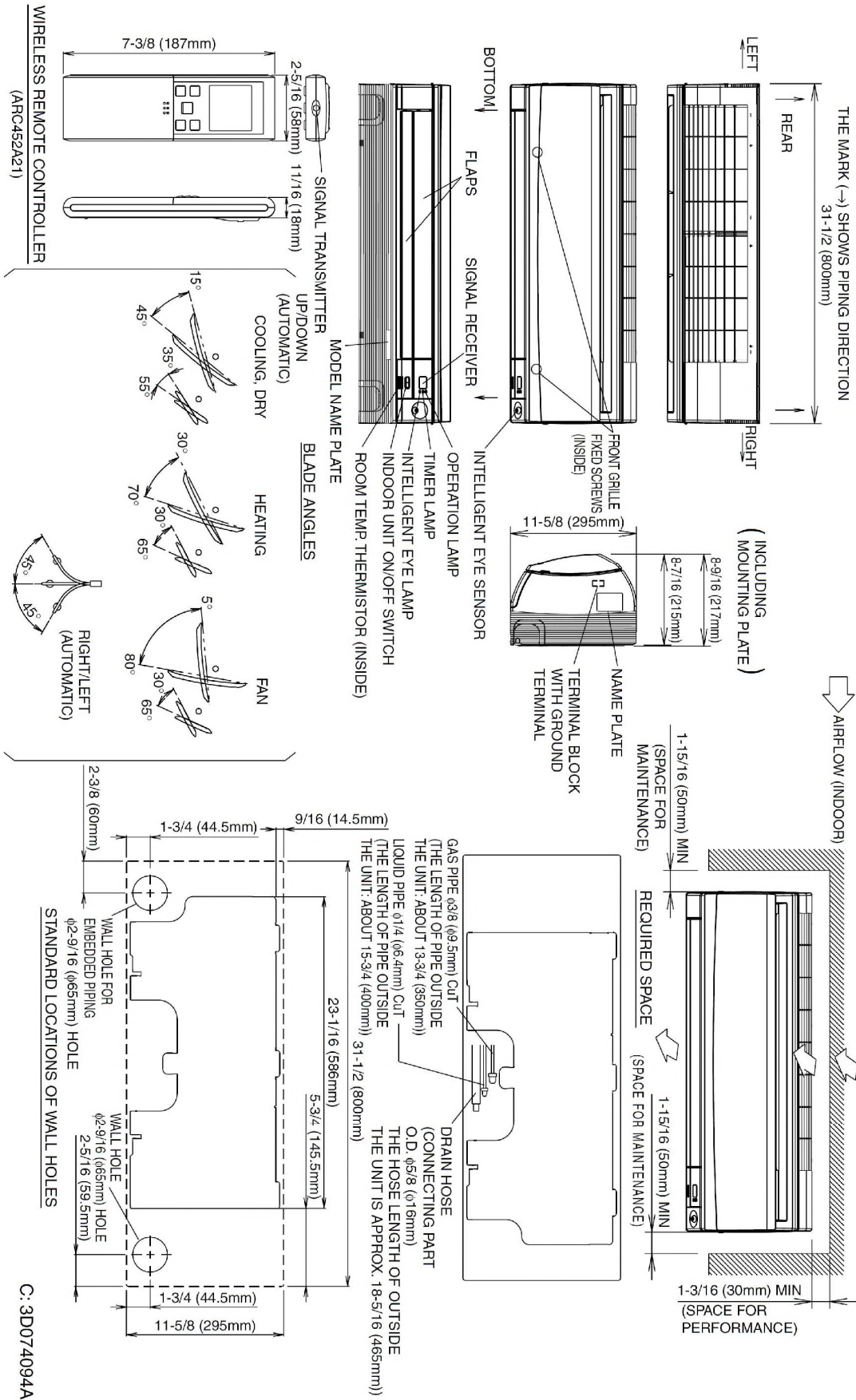
Optional Accessories

Included	Part Number	Description
	BRP072A43	Wireless Interface Adapter (S21 Adapter Included)
	DACA-TS-1	Daikin ENVi Intelligent Thermostat Kit
	BRC944B2-A08	Wired Remote Controller Kit (Includes BRC944B2 & BRCW901A08)
	BRCW901A03	Wired Remote Controller Cable - 10 ft (For BRC944B2)
	BRCW901A08	Wired Remote Controller Cable - 25 ft (For BRC944B2)
	KRP928BB2S	Interface adaptor for DIII-NET
	DACA-CP1-1	Inline Condensate Pump (Fits inside all Daikin wall & floor mount units)
	DACA-CP4-1	External Condensate Pump
	KAF970A46	Air-purifying filter with photocatalytic deodorizing function (without frame)

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CTXS07LVJU Dimensional Data



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