

Heating Summary					
Structure Ducts Central vent (SER=84% 210	15024 447 cfm) 3084	Btuh Btuh Btuh			
Humidification Piping Equipment load	0 0 18555	Btuh Btuh Btuh			
Infiltration					
Method Expos. categ Const. categ Number of stories	F280-12 Very heavy shielding Custom - BDT values 2.0				
Area (ft²) Volume (ft³) Air changes/hour Equiv. AVF (cfm)	Heating 2178 18755 0.16 49	<b>Cooling</b> 2178 18755 0.05 16			
Heating Equipment Summary					
Make Mitsubishi Trade Zuba Central Model PVA-A24AA7 AHRI ref					
Efficiency Heating input Heating output Temperature rise Actual air flow Air flow factor Static pressure Space thermostat	100 7.6 26000 39 613 0.040 0.60	AFUE kW Btuh °F cfm cfm/Btuh in H2O			



be located and installed as per OBC Div. B , 9.32.3.12. Where a HRV is connected to a force air heating system , the supply side of the ventilator shall be directly connected to the return side of forced air heating system as per OBC Div. B , 9.32.3.11 (3).

![](_page_0_Figure_4.jpeg)

NOTES						
<ul> <li>All ducts to be sealed</li> <li>The exact location of grills/ registers to harmonize with other trades</li> <li>All rooms without return grills shall have doors undercut</li> <li>Any ducts passing through unconditioned space to be insulated to min R12 and wrapped in a vapor barrier</li> <li>All S/A branches to be equipped with balancing dampers</li> <li>Basement return(s) are low wall all other returns are to be a high wall</li> <li>Kitchen fans are not to exceed 500cfm</li> <li>Assume all S/A branches to be 5" unless stated otherwise</li> <li>R/A branches at 14 x 5.50 are to be installed into 2 x 6 walls</li> <li>The exact location of bathroom vents to be decided on site</li> <li>If HRV is recommended assume it to have a simplified connection unless stated otherwise.</li> <li>If more than one (1) HRV is indicated assume the Principal Exhaust load to be shared and the circulation switch will be interlocked to operate units simultaneously. Duct HRV to a cold air return plenum. Minimum 6'6" horizontally from the furnace.</li> </ul>	LEGEND					
		Furnace	Ċ	Trunk Fitting		
	⇒¤≮	Return Grill	÷	Return Boot		
	≮⇒ ↓	Supply Register		Double Wall Return Grill		
	0	Supply Boot		Single Wall Return Grill		
	1	Wall Supply Register	~	Top Takeoff		
<ul> <li>Any rooms over 10' ***Ceiling fans are highly recommended***</li> <li>Installation to comply with current OBC regulations and follow manufacturers recommendations</li> </ul>		Return Air Cutout	Ą	Single Line Reducer		
<ul> <li>Any ducts penetrating fire separation must be equipped with fire dampers as per OBC 3.1.8.7</li> <li>Location of A/C units to comply with OBC and manufacturers location</li> </ul>	\$	Supply Riser Round	⊠	Supply Riser Square/Rectangular		
<ul> <li>All branch connections will be at the discretion of the installer and must</li> </ul>		Supply Duct Single Line		Return Duct Single Line		
<ul> <li>All equipment installation will meet OBC requirements and manufacturers recommendations.</li> </ul>	5"	Round Branch Notation	14x3.25	Return stud Cavity Notation		
<ul> <li>Equipment specified may be substituted with comparable make and models, Must meet indicated loads specified in final reports.</li> <li>The duct design has allotted for movements of ducts 6" either way to accommodate on-site structural necessity. The design is based on plans submitted to Ontario HVAC Design by the builder/contractor/owner. Ontario HVAC Design is not responsible for changes made to the duct</li> </ul>	10 x 4 00cfm	Register Notation, size and Air Flow	8 x 8	Trunk Size Notation		
	F	Exhaust Fan	I <sup>FD</sup>	Fire Damper		
design during construction. Ontario HVAC Design will not be performing any on-site final inspection.						

![](_page_0_Figure_6.jpeg)

## Scale: 1/4" = 1'0" Page 1 Right-Suite® Universal 2021 21.0.07 RSU27441 2021-Jun-17 00:24:21