MECHANICAL I GENERAL NOTES (REFER TO DIVISION 230000 FOR FURT	DRAWING NOTES	MATERIAL AND INSULATION S System
·	d equipment required to complete his work in accordance with the	Ductwork; Supply Ductwork; Supply & Return (Uncondi Ductwork; Return
existing and related conditions that may, will or could affect his	ling those of the other trades in order to acquaint himself with the work. He shall be experienced, skilled and knowledgeable with this type	Ductwork; Exhaust Ductwork; Flexible Duct
of construction and shall be expert and proficient in the prepara interpretation of contract documents such as those prepared for	tion of estimates and the comprehension, implementation, and	Condenser Water Piping (2"Ø & Sma Condenser Water Piping (Larger thar
ne Contractor shall visit the site before he submits his propose ubmission of the proposal shall be considered evidence that th ditional work made necessary by the failure to visit the site.	al. He shall examine all existing conditions which affect the work. his requirement has been fulfilled. No extra payment will be allowed for	Refrigerant Piping Condensate Piping - A/C
contractor by his acceptance of the contract guarantees that	at all work installed shall be free from all defects in workmanship and	Ductwork; Gas Flue & Combustion A
luring a period of one (1) year from the date of the certificate kmanship, material or performance appear, such defects sh	the capacities and characteristics specified. He further guarantees that of completion and acceptance of the work, any such defects in all be remedied by him without cost to the owner. If the contractor fails to	AIR DEVICE SCHEDULE
the contractor, the owner will have such work done, and he w		No. CFM Size Neck AD-1 0-125 12x12 6"Ø
de. Only mechanics skilled in this type of work shall be emplo	nlike manner in accordance with the latest and best practices of the oyed by the Contractor for this division in the execution of this work.	125-300 24x24 8"Ø 1 AD-2 0-450 12x12 10x10 1
ne contract drawings are diagrammatic and indicate the gener quired for a complete installation. The contract drawings are r th the other contract documents shall be examined for all dim	ral arrangement of systems. The Contractor shall provide all work not to be scaled. The architectural contract drawings and details together rensional information.	0-1800 24x24 22x22 1 AD-3 50 CFM / Refer to Plans 1
	his work, and he shall also check the contract drawings of the other alipment locations shall be coordinated with the Architect and the General	AD-4 75 ČFM / Refer to Plans AD-5 100 ČFM / Refer to Plans AD-5 CFM / Refer to Plans
ontractor.	ke reasonable modifications in the layout of his work in order to prevent	AD-6 0-150 8x8 6x6 1 0-300 14x14 12x12 1 AD-7 0-400 14x10 12x8
onflicts with the work of other trades or for the proper execution	n of his work.	AD-7 0-400 14x10 12x8 1 0-800 20x8 18x6 1 0-1200 32x14 30x12 1
progresses, the actual location of all work shall be clearly record These prints shall be available at the site for inspection at all tim	blete set of blueline prints of the contract drawings. As the work ded, including all changes to the contract and equipment size and type. nes. At the conclusion of the work, the contractor shall, at his own	Air Device Notes: 1. Unless other wis 2. Provide air device
ncorporate all "as built" data in a clearly legible and reproducibl conditions. All revisions shall be incorporated on these reproduce	rawings, and utilizing the symbols on the contract drawings, shall le manner. All schedules shall be corrected to indicate "as built" cibles including all sketches and written directives. All concealed	ROOFTOP UNIT W/ HEAT RECO
acceptance of the work, the "as built" reproducibles and one (1)	dimensionally located from the building structure As a condition for) set of prints shall be signed, dated and delivered to the engineer.	Unit Designation Basis of D
work shall be performed without any additional cost to the owne described. The contractor shall be responsible to verify with all l	k which may be claimed by trade organizations within his jurisdiction. All er irregardless of which section of the contract documents the work is local organizations the extent of any collective bargaining agreements	Model Nu Service Lo
accordance with the accepted trade practice in the area.	between the respective trades, and provide and install his work in	Dimensions (L x W x H Approximate Weight
The entire installation shall conform with all pertinent codes and authorities, The National Board of Fire Underwriters, the codes Association and all other regulatory bodies having jurisdiction.	d regulations of the local, municipal, county, state, and federal of the International Codes Council, the National Fire Protective All materials and equipment shall bear the stamps or seals of the NFPA,	Cooling Performance
ASME, NEMA, IEEE, UL and other recognized industry regulate	ory groups.	Coil Airflow (Coil EAT (DB/WE
The Contractor shall give all necessary notices, obtain all perminis work. He shall file all necessary plans, and prepare all other compliance with all applicable laws, ordinances, rules and regul	its, pay all governmental taxes, fees and other costs in connection with documents including additional detailed plans that are required for lations.	Coil LAT (DB/WE Unit LAT (DB/WE Aireide Coil ABD (in
	nd shall maintain a safe environment at the job site for all employees.	Airside Coil APD (in Total Capacity (Sensible Capacity (
All work shall be installed in strict accordance with the equipme Openings around ductwork and piping passing through the cons	•	HGRH Capacity Condensing
All systems are to be tested, adjusted and balanced to provide p	performance as indicated on the drawings.	Application Evaporator Coil
Coordinate to assure that all work of all trades will be concealed ceiling heights. Report exceptions to the Architect prior to const	d within the wall and ceiling construction and without the need to reduce truction and erection of the work.	Stages (Circuit Compressor Type (Circuit
All work shall be supported from the building structural system. Dumbing work, sprinkler piping, electrical work, nor from other r	Work shall not be supported from the ceiling suspension system, from mechanical work.	HGRH (Circuit EWT (°F) (Circuit
The HVAC and Plumbing trades shall coordinate all work with th	·	LWT (°F) (Circuit
adjustments, filter replacement, component service, and provide	provide adequate clearances for architectural design, proper operation, e a minimum 2" clearance between all piping, ductwork, conduit, etc.	Heating Performance Coil EA
he Contractor shall maintain as-built drawings and deliver ther Provide supports, hangers, flexible pipe connections, vibration i	isolation, supplementary supports, controls and wiring, cleaning,	Unit LA Capacity
painting, specialties and all other labor, materials, devices and s indicated, run all piping, ductwork, and conduit as high as possi	services required for a complete, quality installation. Unless otherwise	EWT (°F) (Circuit LWT (°F) (Circuit
The HVAC trades shall coordinate all electrical loads with the E	lectrical Contractor.	Electrical Data
The Contractor shall coordinate with the General Contractor. Lo	ocate all required cutting and patching and the like required by the	Minimum Circuit Am Maximum Overcurrent Prot
installation of the Mechanical work. Provide all specialties, accessories, controls, etc., to provide a c	complete, quiet, properly operating automatically controlled systems.	Supply Fan Bra Exhaust Fan Bra
The HVAC trade shall provide all safety and operating controls, systems to operate in a safe and satisfactory manner.	transformers, motor starters, devices and control wiring required for the	Supply Fan Mo Exhaust Fan Mo
	except for testing, and provide new filters for all units and immediately	Supply Fan Motor Q Exhaust Fan Motor Q
Ductwork shall be constructed of galvanized sheet metal fabrica	ated and erected in accordance with ASHRAE and SMACNA standards.	Supply Fan VFD Frequence Exhaust Fan VFD Frequence
	an branchee, an equalizere, and enniar devicee de required to property	
balance the systems and produce quiet, draftless operation. Du	·	Outside Air Design
leakage to 5% or less of circulated air.	tight during erection with caulked, taped or hardcast joints to restrict	Airflow (Summer Outdoor Temp. (DB/WE
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RTU-1 gn Valent er VPRC-310-25H on Make-Up Air / Exhaust a) 303 x 77 x 84 a) 5086 a) 5086 a) 5086 b) 84.5 / 71.0 F) 87.1 / 55.8 F) 81.7 / 65.2 a) 0.3 d) 297.8 d) 177.2 d) 131.0 IR 12.4 R 9.5 s) 4 3) 2 / 2 B) Mod. / - B) 95.0 / 95.0 B) 105.6 / 106.1 b) 105.6 / 106.1 b) 93.5 d) 30.0 B) 95.0 / 95.0 B) 45.0 / 45.0 B) 45.0 / 45.0 B) 45.0 / 45.0 B) 30.00 IP 3.00 IP 3.00 IP 3.00 IP 3.00	Unit Designation Basis of Design Wa Model Number Unit Airflow (CFM) Outdoor Air Airflow (CFM) Ext. Static Pressure Flow Rate (GPM) Unit Pressure Drop (psig) Operating Weight (Ibs.) Filter Dimensions (in.) (qty. (1)18 Location Cooling Performance Nominal Tonnage Total Capacity (MBH) Unit Pressure Drop (Ft./Hd.) EER Unit Power Input (kW) Heat of Absorption Entering Fluid Temperature Heating Capacity (MBH) ISO 13256-1 COP Unit Pressure Drop (Ft./Hd.) Unit Power Input (kW) Heat of Absorption Entering Fluid Temperature Electrical Data 208 Compressor RLA / LRA Fan HP Total Full Load Amps Minimum Circuit Ampacity Max. Circuit Breaker / Fuse Size Unit Connection Size (in.)]<	HHP B-1HHP B-2ater FurnaceWater FurnaceNBH026NBH049 800 16001603200.50.5 8.0 12.02.231.93 305 423 $8x18,(1)18x'(1)20x20,(1)20x22$ 2.04.026.5646.7221.4536.15 5.2 4.513.812.71.933.6733.159.295.095.022.5241.944.43.96.25.31.513.1417.431.245.045.0	HHP B-3 HHP B-4 Water Furnace Water Furnace NBH038 NBH038 1200 1200 240 240 0.5 0.5 9.0 9.0 1.77 1.77 373 373 (2) 18x20 (2) 18x20 3.0 3.0 37.63 37.63 29.57 29.57 4.1 4.1 13.9 13.9 2.71 2.71 46.9 46.9 95.0 95.0 95.0 95.0 31.39 31.39 4.4 4.4 4.9 4.9 2.11 2.11 24.2 24.2 45.0 45.0 08-230 / 30 / 6208-230 / 30 / 10 11.6 / 73.0 11.6 / 73.0 11.2 1/2 1/2 1/2 15.7 15.7 18.6 18.6<	Water Furnace Water NBH026 NB 800 1 160 3 0.5 0 8.0 1 2.23 1 305 2 (1)18x18,(1)18x14)20x20 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 3.3.1 5.2 4.4 6.2 1.51 3 17.4 3 17.4 3 17.2 10.6 2<	$$ 4.0 2.0 5.72 26.56 5.15 21.45 4.5 5.2 2.7 13.8 6.67 1.93 9.2 33.1 5.0 95.0 1.94 22.52 3.9 4.4 5.3 6.2 4.14 1.51 1.2 17.4 5.0 45.0	Water Furnace Water NBH026 NBI 800 16 160 3 0.5 0 8.0 11 2.23 1. 305 4 1)18x18, (1)18x(1)20x20 2.0 4 26.56 46 21.45 36 5.2 4 13.8 12 1.93 3 33.1 59 95.0 99 22.52 41 4.4 3 6.2 5 1.51 3 17.4 3 45.0 44 30 6.5 / 55.4 14.0 1/2 10.6 2 12.2 24 15 3 0.75"Ø 1 Yes Y Yes Y Yes Y Yes	P 1-4 HHP 1-5 Furnace Water Furn 1049 NBH049 500 1600 20 320 500 12.0 93 1.93 23 423 , (1)20x(1)20x20, (1)2 -0 4.0 .72 46.72 .15 36.15 .5 4.5 2.7 12.7 67 3.67 9.2 59.2 5.0 95.0 .94 41.94 9 3.9 .3 5.3 14 3.14 1.2 31.2 5.0 45.0 // 30 / 6208-230 / 36 // 83.1 14.0 / 83 1 1 1.6 21.6 5.1 25.1 35 35 *Ø Yes es Yes es Y	Ace Water Furnace NBH049 1600 320 0.5 12.0 1.93 423 423 20x2220x20, (1)20x 4.0 46.72 36.15 4.5 12.7 3.67 59.2 95.0 41.94 3.9 5.3 3.14 31.2 45.0 4/6008-230 / 30 / 6 40 / 6	NBH026 800 160 0.5 8.0 2.23 305	Ce Water Furnace Wat NBH026 N 800 160 0.5	NBH026 NBH026 800 800 160 160 0.5 0.5 8.0 8.0 2.23 2.23 305 305 (1)18x(1)18x(1)18x18, (1)18x	Water Furnace Water NBH049 1600 320 0.5 12.0 12.0 1.93 423 423 1)20x20, (1)20x	HHP 1-12 HHP 2-1 ater Furnace Water Furnace NBH049 NBH038 1600 1200 320 240 0.5 0.5 12.0 9.0 1.93 1.77 423 373 0x20, (1)20x2 2 (2) 18x20 (1) 4.0 3.0 46.72 37.63 36.15 29.57 4.5 4.1 12.7 13.9 3.67 2.71 59.2 46.9 95.0 95.0 95.0 95.0 41.94 31.39 3.9 4.4 5.3 4.9 3.14 2.11 31.2 24.2 45.0 45.0 3-230 / 30 / 6208-230 / 30 / 6 14.0 / 83.1 11.6 / 73.0 1 1/2 21.6 15.7 25.1 18.6 35 <	NBH026 800 160 0.5 8.0 2.23 305 1)18x18, (1)1 2.0 26.56 21.45 5.2 13.8 1.93 33.1 95.0 22.52 4.4 6.2 1.51 17.4 45.0	Ace Water Furnace NBH026 800 160 0.5 8.0 2.23 305 8.0 2.23 305 8x(1)18x18, (1)18x1 2.0 26.56 21.45 5.2 13.8 1.93 33.1 95.0 22.52 4.4 6.2 1.51 17.4 45.0 7/6208-230 / 30 / 6 6.5 / 55.4 1/2 10.6 12.2 15	NBH038 1200 240 0.5 9.0 1.77 373 4 (2) 18x20 3.0 37.63 29.57 4.1 13.9 2.71 46.9 95.0 31.39 4.4 4.9 2.11 24.2 45.0
6) N/A 3) 37.5 / 37.5 3) 20 / 20 3) 1.25"Ø / 1.25"Ø be Normally Open 208 / 3Ø / 60 S) 13.2 / 13.2 S) 13.2 / 13.2 S) 8.5 / 8.5 S) 22.4 / 22.4 S) 0 / 62.8	Basis of Design Wa Model Number Unit Airflow (CFM) Outdoor Air Airflow (CFM) Ext. Static Pressure Flow Rate (GPM) Ext. Static Pressure Flow Rate (GPM) Unit Pressure Drop (psig) Operating Weight (lbs.) Filter Dimensions (in.) (qty.) Filter Dimensions (in.) (qty.) 118 Location Cooling Performance Nominal Tonnage Total Capacity (MBH) Sensible Capacity (MBH) Sensible Capacity (MBH) Unit Pressure Drop (Ft./Hd.) EER Unit Power Input (kW) Heat of Absorption Entering Fluid Temperature Heating Capacity (MBH) ISO 13256-1 COP Unit Pressure Drop (Ft./Hd.) Unit Power Input (kW) Heat of Absorption Entering Fluid Temperature Heat of Absorption Entering Fluid Temperature Ethex of Absorption Entering Fluid Temperature Ethex of Absorption	HHP 2-5HHP 2-6ater FurnaceWater FurnaceNBH026NBH0268008001601600.50.58.08.02.232.23305305	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Water Furnace Water NBH038 NB 1200 8 240 1 0.5 0 9.0 8 1.77 2 373 3 14 (2) 18x20 (1)18x18 3.0 2 37.63 26 29.57 2 4.1 3 13.9 1 2.71 1 46.9 3 95.0 9 31.39 22 4.4 4.9 0 2.11 1 24.2 1 35.0 9 31.39 22 4.4 - 4.5.0 4 30 - 11.6 / 73.0 6.5 1/2 - 15.7 1 18.6 1 30 - Yes Y Yes Y Yes	P 2-10 HHP 2-11 Furnace Water Furnace H026 NBH026 300 800 160 160 0.5 0.5 305 305 305 305 305 305 305 305 305 305 3(1)18x(1)18x18,(1)18x1 2.0 2.0 5.2 5.2 3.8 13.8 .93 1.93 3.1 33.1 5.0 95.0 2.52 22.52 4.4 4.4 5.2 6.2 .51 1.51 7.4 17.4 5.0 45.0 0.7 30 / 6208-230 / 30 / 6 75.4 6.5 / 55.4 1/2 1/2 0.6 10.6 2.2 12.2 15 15 75"Ø 0.75"Ø 76"Ø 75"Ø 76"Ø Yes (es	Water Furnace Water NBH038 NBI 1200 8 240 1 0.5 0 9.0 8 1.77 2. 373 3 4 (2) 18x20 (1)18x18 3.0 2 37.63 26 29.57 21 4.1 5 13.9 13 2.71 1. 46.9 33 95.0 99 31.39 22 4.4 4 4.9 6 2.11 1 24.2 1 45.0 44 4.9 6 2.11 1 15.7 10 15.7 10 18.6 12 30 1 Yes Y Yes Y Yes Y	P 2-13 Unit Definition Furnace 00 1026 00 00 60 60 0.0 23 05 0,(1)18x14 2.0 2.0 2.0 2.0	Suction / Disch Dimensions (L Imp. Dimensions (L Imp. al Eff. Ories Im Efficiency, Invert Variable Differential Press Pum Cement Fille Suction Diffus ' Ø Triple-Duty Valv aided Flexible Pump Concentric F y Non-Overloading on & Discharge Pre- Temper s Start-up, Alignmen Pump Motor Currer charge Paddle Typ narge High Limit Pre- or Starter and Disc H-O-A Si Control Panel w/ JTO / P2 Manual Si Manual Alarm Variable Speed Pur Pu	Description asis of Design Aodel Number System arge Size (in.) Max. GPM Head (FT) x W x H) (in.) Diameter (in.) Location HP RPM @ Duty Point @ Duty Point @ Duty Point # Motor Frame . Transducers p Flow Switch d Inertia Base er W/ Strainer /e (Discharge) o Connections Pipe Reducers Pump Motors ssure Gauges rature Gauges rat	75 52 x 20 x 20 8.7 Refer to Plans 208-230 / 3Ø / 60 10.87 1760 77% Yes Provided By Pump Vendor 215T Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	AHU Mode C AHU CFM (Low / Me Entering Air Temp. (DB D AHU Dimensions (M AHU We Heating Coil (Indoor) Basis Coil Mode Heating Capacit Min Heating Capacit Min Heating Capacit AHU Electrical AHU Electrical AHU Electrical AHU Electrical AHU Electrical Combinal Total Cooling Capac Combinal Saturated Condensing T Minimum OA Ter Condenser EAT (°F d Refrigerant Lines (Liquid HP Dimensions (V HP Dimensions	on AHL of Design Fraser-a I Number DHPM36P rientation Wall-W ed / High) 677-70 /WB) (°F) 80 rive Type Dir /WB) (°F) 80 rive Type Dir / x D x H) 54 x 1 eight (Ibs) 4 Coil Type Heat of Design Frazer-a I Number y (BTUH) 36, gnation HP of Design Frazer-a I Number DHPM360 Tonnage 3 ity (MBH) 36 emp (°F) 9 nperature b / °F wb) 80 / Va	NWM42Q1 DHPM36NWM42Q Mounted Wall-Mounted 06-824 677-706-824 / 67 80 / 67 rect Direct 10 x 13 54 x 10 x 13 45 45 Pump Heat Pump Johnston Frazer-Johnston ,400 36,400 ,600 20,600 ,400 36,400 ,600 20,600 ,400 36,400 ,600 20,600 ,400 36,400 ,600 20,600 ,400 36,400 ,600 20,600 Johnston Frazer-Johnston CSM42Q1 DHPM36CSM42Q 3.0 3.0 6.0 36.0 3.2 8.2 95 <	HPM24N Wall-Mc 354-41 80 / Dire 40 x 8. 45 Frazer-Jc 23,0 15,0 208 / 19 0.2 3.1 Frazer-Jc	whnstonWM42Q1punted $3-472$ 67 ct 5×13 pumpphnston 00 00 00 00 00 00 00 00 00 00 00 00 $3-3$ whnston $SM42Q1$ 0 <td></td>	

