



Four NC380-SV-ASME installed in Mechanical Room, previously occupied by two 100 gal. tank units.



Laundry Room with 6 washing machines.

RNPH Properties, LLC, owners of the Park Plaza Apartments in Fort Worth, TX., switched to a Noritz commercial water heater after experiencing constant water heating issues and frequent call-backs (on service) with the two (199,000 Btu, 100 gal.) commercial tank water heaters that were previously installed. Since switching to a Noritz commercial system, the water heating issues have been resolved and the property owners are seeing annual savings of about \$4,000 on their water heating costs.

The ASME certified Noritz commercial water heater system was the perfect solution for the apartment complex, where hot water is an essential part of the tenants' comfortable living experience. Not only will the system meet the hot water demand of the building, but it will also heat the water efficiently, reducing energy consumption significantly, which equals water heating costs savings for the property owner. Redundancy is also possible with a Noritz commercial water heater, so should any one of the units (in a multi-system setup) need any maintenance or repairs performed, this can be done without compromising the tenants' hot water usage. The other units online will still provide hot water, while the troubled unit is being serviced. Should the units need servicing, the components are modular therefore parts can be easily replaced and repaired. With the added features, benefits and cost savings with the Noritz commercial units, the switch turned out to be a great investment for the property owner. Both property owner and tenants are extremely satisfied with the Noritz commercial water heating system.



Four vertical 5" vent terminations through the roof top.

Property Profile

Location: Park Plaza Apartments
City: Fort Worth, TX.
Installer: RSD Plumbing, Inc.

Noritz Installation

Location: Indoor installation (mechanical room)
Application: 64 (1 bed/1 bath) units, 8 (2 beds/2 baths) units and 6 washing machines.
Vent set-up: Category III Stainless Steel (Vertical, approx. length 3 ft.)

Noritz heater profile

Noritz units: Four NC380-SV-ASME
Noritz Accessories: Isolator Valves (IK-WV-9-TH)
Fuel Type: Natural Gas
Gas Consumption: Max. 380,000 btuh – Min. 22,500 btuh
Flow rate performance: 0.7 – 13.2 GPM
Temperature settings: 100 – 180°F
Warranty: 5 years on heat exchanger and parts (non-prorated)



Before		After	
Date	Bill amount	Date	Bill amount
9/5/2007	\$ 1,169.76	9/4/2008	\$ 841.30
10/6/2007	\$ 876.31	10/7/2008	\$ 1,026.53
11/2/2007	\$ 1,192.46	11/6/2008	\$ 1,312.89
12/4/2007	\$ 1,676.05	12/4/2008	\$ 1,469.33
1/7/2008	\$ 1,905.05	1/7/2009	\$ 1,430.23
2/5/2008	\$ 1,952.39	2/3/2009	\$ 1,046.61
3/5/2008	\$ 1,652.69	3/5/2009	\$ 784.00
TTL	\$ 10,424.71	TTL	\$ 7,910.89

Savings over 7 months (Before vs. After)	
\$	2,513.82
Annual Savings*	
\$	4,309.41

* Annual savings calculation based on average savings over 7 months multiplied by 12.

Model NC380-SV-ASME Commercial Water Heater Specification Sheet

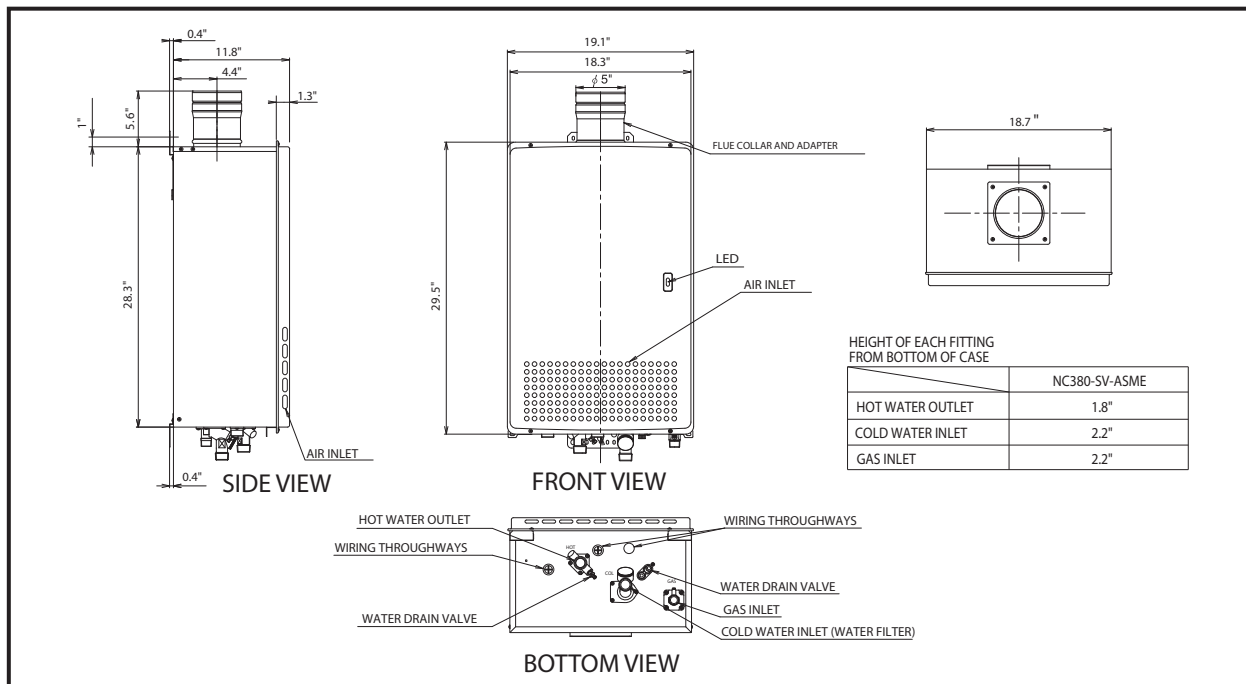
Job Name _____
 Location _____
 Architect/Engineer _____
 Wholesaler _____
 Contractor _____
 Model No. _____
 Gas Type _____
 No. of Units _____ Total BTU/hr Input _____
 Flow Rate (GPH) _____
 Notes _____

- **Standard Input** - gas consumption ranges from 22,500 BTU/h to 380,000 BTU/h
- **Compact Design** - ANSI Z21.10.3/CSA 4.3 certified design that can be wall-mounted indoors or installed outdoors using optional Vent Cap
- **Durable Stainless Steel Casing**
- **Heat Exchanger** - manufactured with commercial grade copper, 25% thicker piping than standard models
- **Venting** - available in standard power vent model that requires 4" Category III stainless steel pipe
- **Direct Electronic Ignition**
- **Multi-System Capability** - units can be linked together by using either the optional 2-unit Quick Connect or multi-unit System Controller for up to 24 units.
- **Fully Modulating** - BTU input can range from 22,500 to 9.1 million BTU/h (for 24-unit Multi-System)
- **Thermal Efficiency** - 80% efficient for use with natural gas and 84% for propane
- **Temperature Controls** - includes remote thermostat that can precisely adjust the output temperature from 100°F to 180°F
- **Safety Devices** - Flame Sensor, Overheat Prevention Device, Lightning Protection Device, Freeze Protection
- **Five Year Limited Heat Exchanger Warranty for Commercial Use**
- **Five Year Limited Parts Warranty**
- **ASME Certified** - all models are certified by ASME and the National Board
- **Approvals** - CSA, UPC, NSF, ASME, Low NOx Approved By SCAQMD (Rule 1146.2)



- Model**
NC380 - SV - ASME
- Accessories**
- Vent Cap (#VC-132)
 - Isolator Valves (#IK-WV-9)
 - Pipe Cover (#PC-4S-SUS)
 - Quick Connect Cord (#QC-1)
- System Controller**
- 6-unit (#SC-201-6M)
 - 12-unit (#SC-201-12M)
 - 24-unit (#SC-201-24M)

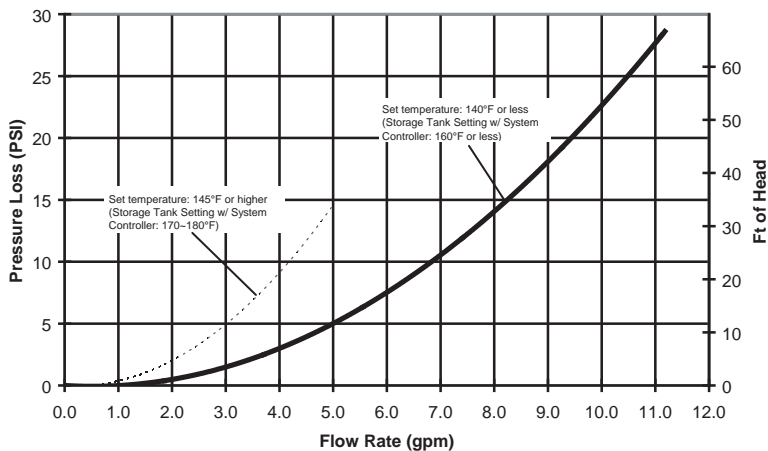
Dimensions



Flow Rates

Temperature Rise (°F)		70	100
Flow Rate (GPM)	1-unit	8.9	6.2
	2-unit	17.8	12.4
	3-unit	26.7	18.6
	6-unit	53.4	37.2
	9-unit	80.1	55.8
	12-unit	106.8	74.4
	24-unit	213.6	148.8
Flow Rate (GPH)	1-unit	534	372
	2-unit	1068	744
	3-unit	1602	1116
	6-unit	3204	2232
	9-unit	4806	3348
	12-unit	6408	4464
	24-unit	12816	8928

Pressure Loss



Temperature Settings and Options

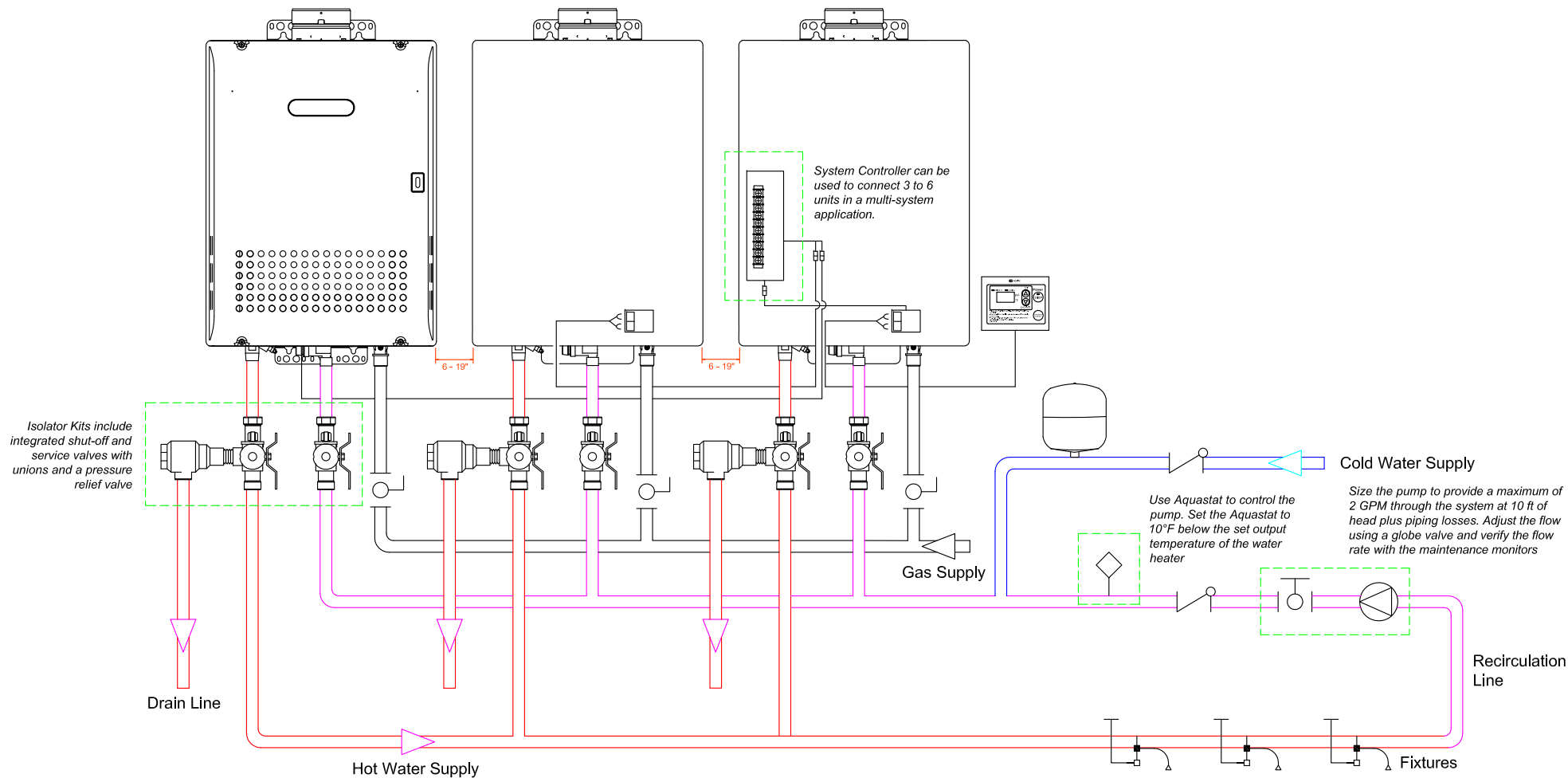
Temperature Settings	100-150°F (In 5°F intervals), 160, 170, *180°F (14 Options)
Default Temperature Options	120, 130, 140, *180°F (Default is 120°F)

*181.4°F actual output temperature

Specification

Commercial, gas-fired, wall-mounted water heater(s) shall be power vent Model NC380 Series as manufactured by Noritz America Corporation. The water heater(s) shall have a 5-year limited Heat Exchanger warranty and a 5-year limited Parts warranty per Noritz Limited Warranty. Unit(s) shall be designed to burn natural/propane gas and certified by CSA International to the latest edition of ANSI standard Z21.10.3/CSA 4.3. Water heater(s) shall have a nominal flow rate capacity of ____ GPH @ 100°F rise with rated input of ____ BTU/hr. Water heater(s) shall be vented with 5" Category III stainless steel vent pipe a distance not to exceed 15 feet (or equivalent) with 3 elbows terminating vertically or horizontally. Water heater(s) is rated for 150 PSI working water pressure and 300 PSI test pressure. Unit(s) shall have a stainless steel case, copper heat exchanger, stainless steel burner, aluminum gas control valves and connections, brass inlet and outlet water connections. Unit(s) shall include features such as an adjustment for high elevation installations, temperature lockout, and 14 temperature options from 100-150°F in 5°F intervals and 160-180°F in 10°F intervals. The heater(s) shall be controlled by an internal circuit board that monitors the inlet and outlet temperatures with installed thermistors, sensing and controlling flow rate to set point temperature with air-fuel ratio controls in order to maintain thermal combustion efficiency. Unit(s) shall include safety features such as flame sensor system, thermal cut-off fuses, wind pressure switch, lightning protection device, overheat prevention device, freeze protection device, and fan rotator detector. Multi-system applications that require 2 units shall be installed by connecting the units using a single cable-only connection (Quick-Connect). Applications that require 3 to 24 units shall use a multi-unit central controller (System Controller). The water heater(s) exceeds the energy efficiency requirements of ASHRAE 90.1b-1992 and listed by SCAQMD rule 1146.2 Low NOx.









Noritz America reserves the right to discontinue, or change at any time, the designs and/or specifications of its products without notice.



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MODEL	EQUIPMENT LIST		
	Item	Part Number	Qty
APPLICATION Commercial Recirculation Multi-Unit System Controller	Noritz SV Model Tankless Water Heater	NC____-SV(-ASME)	3-6
	Remote Controller	RC-7649M	1
	Remote Controller Cord	RC-CORD10	1
	System Controller	SC-201-6M	1
	Isolator Kit	IK-WV-___	3-6
	Vent Cap (Outdoor Use Only)	VC-____	3-6
	Pipe Cover	PC-__S	3-6
	Expansion Tank	Field Supplied	1
	Pump	Field Supplied	1
	Aquastat	Field Supplied	1
DRAWING NUMBER	Globe Valve	Field Supplied	1
	Check Valve	Field Supplied	2
DRAWING DATE	October 13, 2009		

Note: This diagram is for reference only. Installation must comply with State and Local Code, all gas and water pipe must be sized correctly to specific length, according to accepted engineering methods or the UPC Code for Noritz Water Heaters to operate correctly.

-  Shut-off Ball Valve
-  Check Valve
-  Union
-  Pressure Relief Valve (Watts 174A, Zurn P3000BR, Cash Acme F-82)
-  Aquastat (Honeywell Model #L6006A or L6006C)
-  Pump
-  Mixing Valve
-  Thermal Expansion Tank