

# 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 5" 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 & 1-Year Reasonable Labor**
- **ASME Certified** - all models meet the requirements of ASME and the National Board



• **Approvals** - CSA, UPC, NSF, ASME, Low NOx Compliant with Jurisdictions Requiring <40 ng/J or 55ppm. *This product complies with California AB 1953 Low Lead Law and section 1417(d) of the Safe Drinking Water Act.*



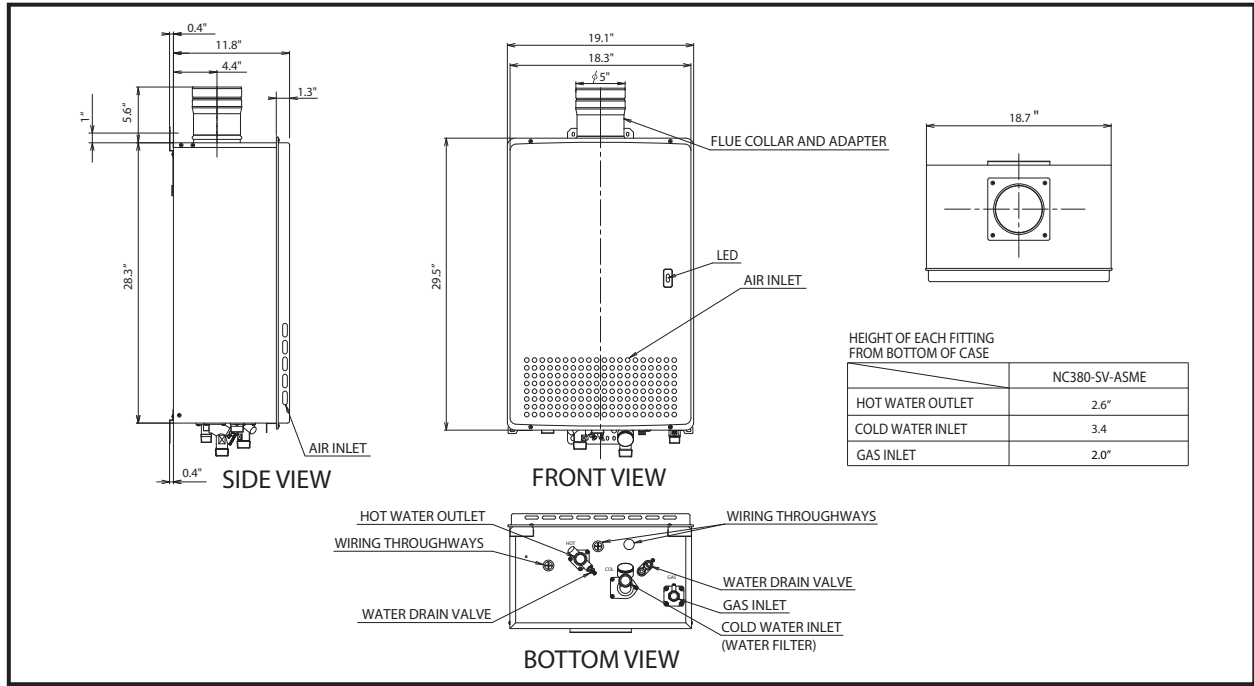
**Model**

NC380 - SV - ASME

**Accessories**

- Vent Cap (#VC-132)
- Isolator Valves (#IK-WV-300-1-(TH / SW)-LF)
- 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)

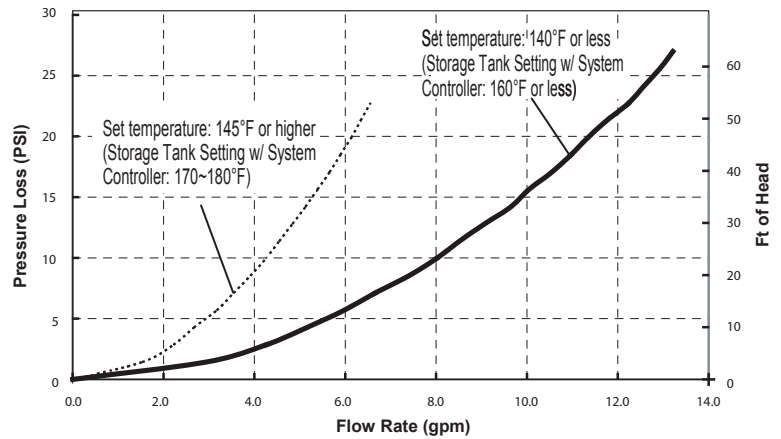
## Dimensions



## 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
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



**NOTE:** For Quick-Connect and Multi-System installations, pressure loss remains constant throughout the system regardless of the number of units installed. Multiply the total number of units in the system by the required flow rate from each unit to determine the total pressure loss from the chart above.

## Power Supply and Consumption

Model Name	Supply	Consumption
NC380-SV-ASME	120VAC (60 Hz), less than 4 amps	NG: 137W Freeze Prevention: 371W LP: 142W

## 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 at a distance not to exceed 15' (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. Gas supply pressure shall be 5.0" to 10.5" WC for natural gas and 10.5" to 14.0" WC for propane. Unit(s) shall have a stainless steel case, copper heat exchanger, stainless steel burner, aluminum gas control valves, 3/4" inlet gas connection, 1" brass inlet/outlet water connections, and water holding capacity of 0.6 gallons. Each unit weighs 105 lbs. 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 ration controls in order to maintain thermal combustion efficiency. Unit(s) shall include safety features such as flame sensor system, thermal cut-off fuses, 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 requirements of ASHRAE 90.1b and listed by Low Nox Compliant with Jurisdictions Requiring <40 ng/J or 55ppm.

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