

# CHARLAND THERMOJET INC

Mixing units, wash down and hoses stations

16350 Blv. Gouin Ouest, Ste-Geneviève, Québec H9H 1E1

Toll free : 1-800-624-4709 Tel : 514-624-4772 Fax : 514-624-4776

Email : [charlandthermojet@videotron.ca](mailto:charlandthermojet@videotron.ca) Web : [www.charlandthermojet.com](http://www.charlandthermojet.com)

---



# CHARLAND THERMOJET INC

Mixing units, wash down and hoses stations

16350 Blv. Gouin Ouest, Ste-Geneviève, Québec H9H 1E1

Toll free : 1-800-624-4709 Tel : 514-624-4772 Fax : 514-624-4776

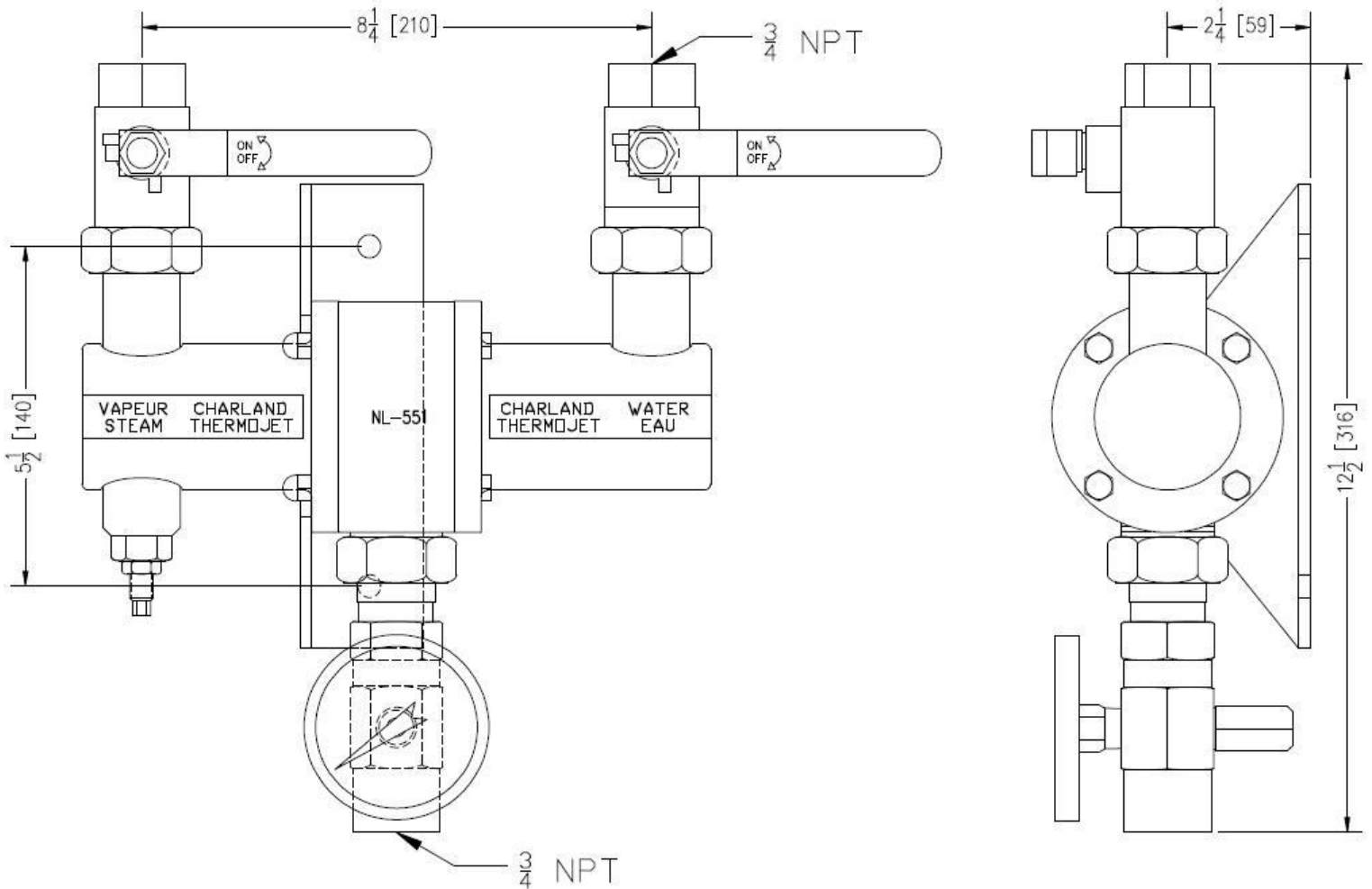
Email : [charlandthermojet@videotron.ca](mailto:charlandthermojet@videotron.ca) Web : [www.charlandthermojet.com](http://www.charlandthermojet.com)

## NL-551-TM-BV MODEL, MIXING UNIT ONLY

### STEAM AND COLD WATER MIXER WITH BALL VALVES

NL-551-TM-BV model wall mounted. Mixes steam with cold water for answering your needs in hot water. Ideal for many type of cleaning tasks in every industrial plants who own a boiler. This mixer can be adjusted for different degrees of hot water. Rapid and easy to use.

**Unit & hose : for use with STEAM and cold WATER only.**



# CHARLAND THERMOJET INC

Mixing units, wash down and hoses stations

16350 Blv. Gouin Ouest, Ste-Geneviève, Québec H9H 1E1

Toll free : 1-800-624-4709 Tel : 514-624-4772 Fax : 514-624-4776

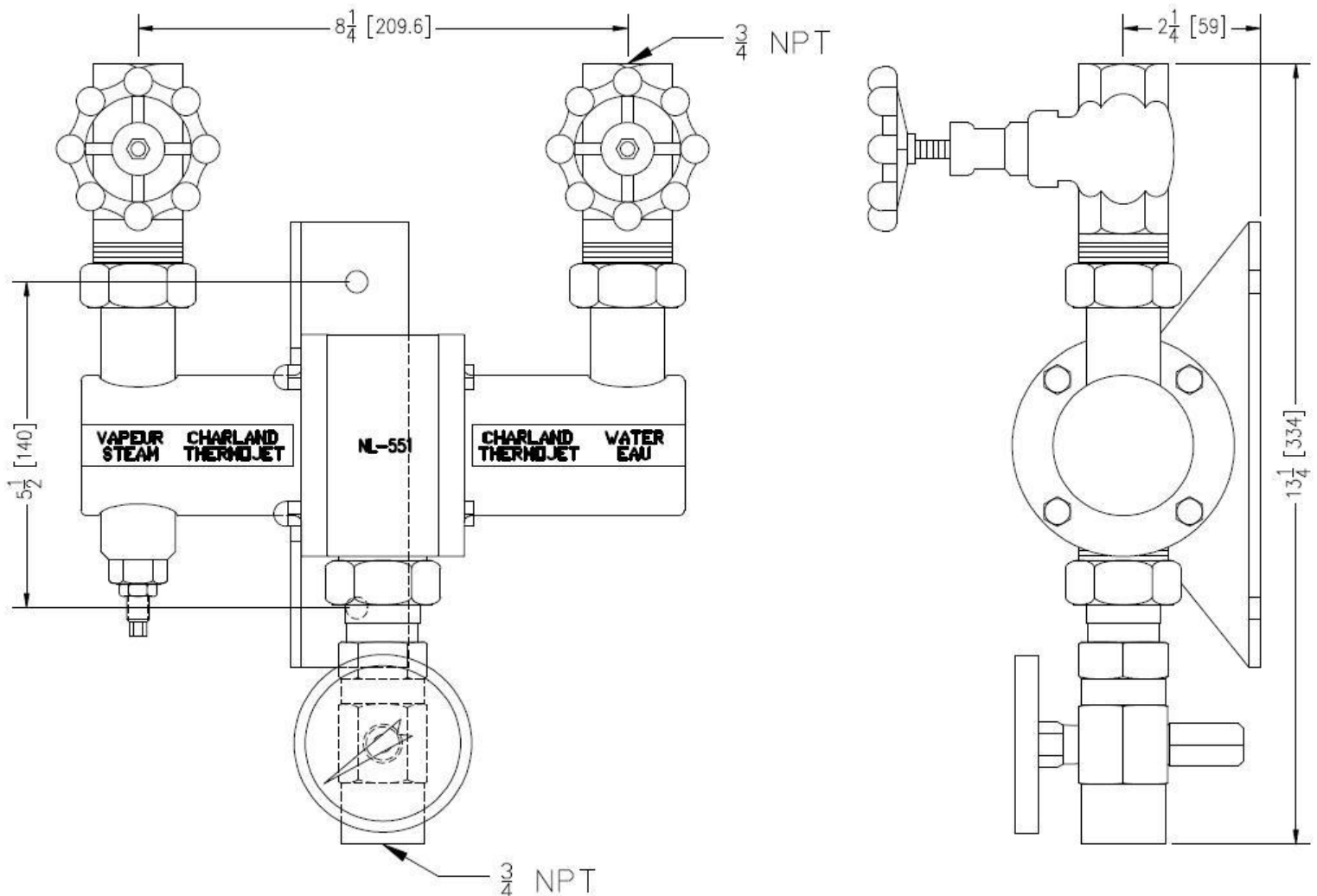
Email : [charlandthermojet@videotron.ca](mailto:charlandthermojet@videotron.ca) Web : [www.charlandthermojet.com](http://www.charlandthermojet.com)

## NL-551-TM-GV MODEL, MIXING UNIT ONLY

### STEAM AND COLD WATER MIXER WITH GLOBE VALVES

NL-551-TM-GV model wall mounted. Mixes steam with cold water for answering your needs in hot water. Ideal for many type of cleaning tasks in every industrial plants who own a boiler. This mixer can be adjusted for different degrees of hot water. Rapid and easy to use.

**Unit & hose : for use with STEAM and cold WATER only.**



# CHARLAND THERMOJET INC

Mixing units, wash down and hoses stations

16350 Blv. Gouin Ouest, Ste-Geneviève, Québec H9H 1E1

Toll free : 1-800-624-4709 Tel : 514-624-4772 Fax : 514-624-4776

Email : [charlandthermojet@videotron.ca](mailto:charlandthermojet@videotron.ca) Web : [www.charlandthermojet.com](http://www.charlandthermojet.com)

---

## NL-551-TM-BV AND NL-551-TM-GV

## STEAM AND COLD WATER MIXER WITH BALL VALVE OR GLOBE VALVE

### FEATURES

- New : External adjustment for the control of the entrance of steam allowing to obtain easily and quickly the wished exit temperature.
- Maximum operating pressure : 150 PSI (1034 kPa).
- Maximum operating temperature : 200°F (93°C).
- Required steam pressure : 40 to 125 PSI (276 to 862 kPa).
- Required water pressure : 50 to 80 PSI (345 to 552 kPa).
- High quality ball valve made of stainless steel.
- Body made of brass with internal part made of stainless steel.
- Integrated check valve.
- Temperature gauge made of stainless steel with a plastic cover to reduce risk of injuries.

### OPTIONS

- High quality (FDA) 2 ply reinforced hose good for up to 150 PSI (1034 kPa) at 200°F (93°C).
- Different kind of unions.
- Automatic gun for small or wide open water jet.
- Stainless steel hose rack for wall mounting.
- Hose reels.
- Embedded or on-surface stainless steel case.
- **All stainless steel units also available.**

**For more information or any questions please contact us.**

# CHARLAND THERMOJET INC

Mixing units, wash down and hoses stations

16350 Blv. Gouin Ouest, Ste-Geneviève, Québec H9H 1E1

Toll free : 1-800-624-4709 Tel : 514-624-4772 Fax : 514-624-4776

Email : [charlandthermojet@videotron.ca](mailto:charlandthermojet@videotron.ca) Web : [www.charlandthermojet.com](http://www.charlandthermojet.com)

## WORKING CONDITIONS FOR NL-551 MIXERS

WORKING CONDITIONS FOR NL-551				
STEAM	WATER	TEMPERATURE		FLOW RATE
		Min.	Max.	
40 PSI (275.8 kPa)	50 PSI (344.7 kPa)	80°F (27°C)	160°F (71°C)	3 GPM (11.4 l/min) TO 8 GPM (30.3 l/min)
50 PSI (344.7 kPa)	50 PSI (344.7 kPa)	110°F (43°C)	170°F (77°C)	
60 PSI (413.7 kPa)	50 PSI (344.7 kPa)	120°F (49°C)	172°F (78°C)	
70 PSI (482.6 kPa)	50 PSI (344.7 kPa)	130°F (54°C)	180°F (82°C)	
80 PSI (551.6 kPa)	50 PSI (344.7 kPa)	145°F (63°C)	200°F (93°C)	
125 PSI (861.8 kPa)	100 PSI (689.5 kPa)	170°F (77°C)	200°F (93°C)	

**\*WARNING, DO NOT EXCEED THESE LIMITS\***

### Normal working procedure

#### Getting started

1. Open the cold water valve to its maximum and keep the nozzle gun wide open.
2. Open very slowly the steam valve to its maximum and maintain the nozzle gun wide open. This allows to eliminate the water condensed in the steam line in a security way.
3. If needed, slowly close the cold water valve to obtain the wished exit temperature while keeping the nozzle gun wide open.
4. These three operations completed, you are ready to use the mixer and the temperature will remain at the adjusted degree, as long as there will be no variation in the lines of water and vapor.

#### Finish

1. Slowly close the steam valve.
2. Close the cold water valve while maintaining the nozzle gun wide open to empty completely the mixer and the hose.

# CHARLAND THERMOJET INC

Mixing units, wash down and hoses stations

16350 Blv. Gouin Ouest, Ste-Geneviève, Québec H9H 1E1

Toll free : 1-800-624-4709 Tel : 514-624-4772 Fax : 514-624-4776

Email : [charlandthermojet@videotron.ca](mailto:charlandthermojet@videotron.ca) Web : [www.charlandthermojet.com](http://www.charlandthermojet.com)

## NL-551 MODEL IMPERIAL TECH DATA

Here are the technical data of the approximative consumption of vapor of the mixer according to the wished exit temperature and the flow rate of cold water. The following results are calculated by taking into account a temperature of cold water of 40 °F (4.5 °C).

### NL-551 station with M-70 nozzle gun and a steam pressure of 60 lb/po<sup>2</sup>

Exit water flow rate (GPM)	Exit water temperature (Celsius)	Exit water temperature (Fahrenheit)	Steam consumption (lbs/hr)
<b>Cold water 50-60 PSI</b>			
5	60	140	276
5	70	158	326
5	80	176	375
5	90	194	425
<b>Cold water 60-70 PSI</b>			
6	60	140	331
6	70	158	391
6	80	176	450
6	90	194	510
<b>Cold water 70-80 PSI</b>			
7	60	140	386
7	70	158	456
7	80	176	525
7	90	194	595

### NL-551 station with M-70 nozzle gun and a steam pressure of 120 lb/po<sup>2</sup>

Exit water flow rate (GPM)	Exit water temperature (Celsius)	Exit water temperature (Fahrenheit)	Steam consumption (lbs/hr)
<b>Cold water 50-60 PSI</b>			
5	60	140	287
5	70	158	339
5	80	176	390
5	90	194	442
<b>Cold water 60-70 PSI</b>			
6	60	140	344
6	70	158	406
6	80	176	468
6	90	194	530
<b>Cold water 70-80 PSI</b>			
7	60	140	402
7	70	158	474
7	80	176	546
7	90	194	619

# CHARLAND THERMOJET INC

Mixing units, wash down and hoses stations

16350 Blv. Gouin Ouest, Ste-Geneviève, Québec H9H 1E1

Toll free : 1-800-624-4709 Tel : 514-624-4772 Fax : 514-624-4776

Email : [charlandthermojet@videotron.ca](mailto:charlandthermojet@videotron.ca) Web : [www.charlandthermojet.com](http://www.charlandthermojet.com)

## NL-551 MODEL METRIC TECH DATA

Here are the technical data of the approximative consumption of vapor of the mixer according to the wished exit temperature and the flow rate of cold water. The following results are calculated by taking into account a temperature of cold water of 40 °F (4.5 °C).

### NL-551 station with M-70 nozzle gun and a steam pressure of 414 kPa

Exit water flow rate (l/min)	Exit water temperature (Celsius)	Exit water temperature (Fahrenheit)	Steam consumption (kg/hr)
<b>Cold water 345-414 kPa</b>			
19	60	140	125
19	70	158	148
19	80	176	170
19	90	194	193
<b>Cold water 414-483 kPa</b>			
23	60	140	150
23	70	158	177
23	80	176	204
23	90	194	231
<b>Cold water 483-552 kPa</b>			
26	60	140	175
26	70	158	207
26	80	176	238
26	90	194	270

### NL-551 station with M-70 nozzle gun and a steam pressure of 827 kPa

Cold water flow rate (l/min)	Exit water temperature (Celsius)	Exit water temperature (Fahrenheit)	Steam consumption (kg/hr)
<b>Cold water 345-414 kPa</b>			
19	60	140	130
19	70	158	154
19	80	176	177
19	90	194	200
<b>Cold water 414-483 kPa</b>			
23	60	140	156
23	70	158	184
23	80	176	212
23	90	194	240
<b>Cold water 483-552 kPa</b>			
26	60	140	182
26	70	158	215
26	80	176	248
26	90	194	281