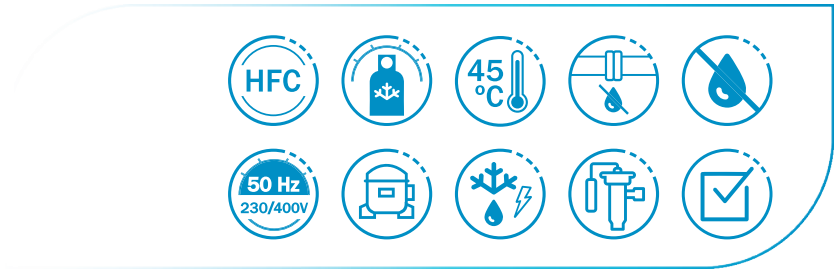


Wine, cheese and mini drying rooms units

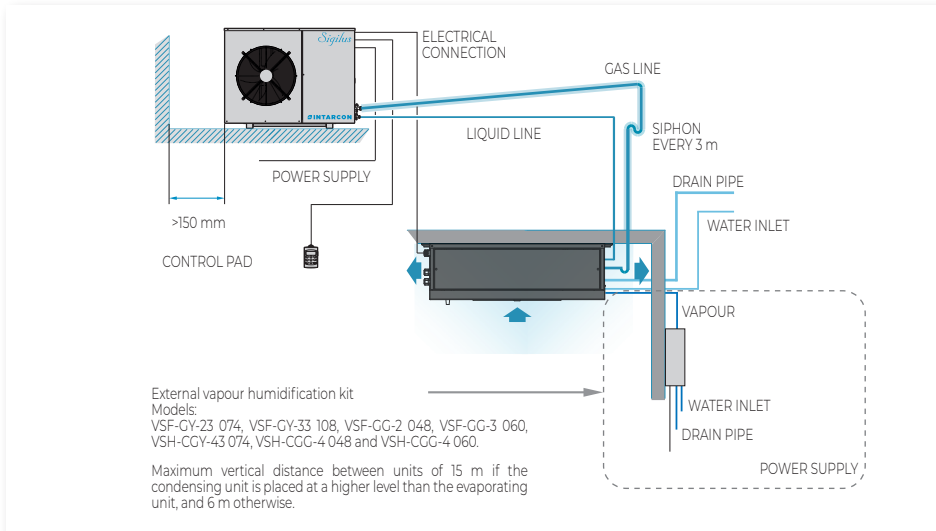


Wine cellar refrigeration split systems with low-noise axial or centrifugal condensing unit and double-flow evaporating unit with heating function, humidification / dehumidification system and condensed water pump, and compact ceiling construction with axial or centrifugal condensation.

APPLICATIONS

- Bottled wine preservation.
- Refrigeration at high temperature with humidity control.
- Preservation of wine in barrels.
- Cheese curing.
- Mini drying rooms.
- Tobacco preservation.

INSTALLATION SCHEME



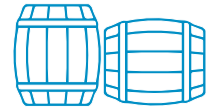
Conservation of bottled wine

Bottled wine requires temperature and humidity controlled conditions that optimally conserve the product while avoiding both cork drying and label mouldiness. The wine treatment unit guarantees optimal conditions for the preservation of bottled wine.



Wine conservation in barrel

In the conservation of wine in barrels, the relative humidity inside the cellar is of great importance, which must be adjusted so that there is no transfer of water vapour between the environment of the cellar and the interior of the barrel, avoiding thus wine wastage or water absorption by the content.



External vapour humidification kit

Vapour humidification with 3 kg/h capacity, consisting of: vapour lances integrated in the evaporator unit, a submerged electrode generating cylinder with feed valves and water purge valves.



Electrical interconnection

For the interconnection of the condenser and evaporator units, the following cable sections must be provided for a length of 10 m:

Power supply	230V 50Hz	400V 3N 50Hz
Probes	4 x 1 mm ²	
Manoeuvre	2 x 1 mm ²	3 x 1 mm ²
Heating resistance	2 x 1,5 mm ² + T	4 x 1,5 mm ² + T
Control pad	2 x 1 mm ²	
Humidifier	2 x 1 mm ²	

* Optional not included.
To know electrical interconnections of each model: see technical manual.

FEATURES

Double-flow low-profile evaporating unit with heaters and active humidification / dehumidification system; and evaporation anti-corrosion coated coil.	■
Air defrost; Air filter.	■
Evaporator built-in solenoid and thermostatic expansion valves.	■
Drain pan and condensed water pump.	■
Flare-type cooling connections (up to 1/2"-3/4) and service valves.	■
Liquid receiver and refrigerant pre-charge for 10 m piping.	■
Proportional condensation control (VSF 1/2/3 and VSH 4/43 series) and all / nothing condensation control (VSF 0, VSH 2/22 and 3/33 series).	■
Multifunction electronic control of temperature / humidity, with remote control.	■
MCB protection.	■
Change to 400V 3N 50Hz power supply.	□ + 5 %
Proportional control of condensing pressure through fan speed variation (already included in VSF 1/2/3 series and VSH 4/43 series).	□ + 317 €
Built-in oil separator.	□ + 745 €
Condenser coil anti-corrosion treatment.	□ + 4 %
Coil protection grille.	□ + 117 €



VSF-G series



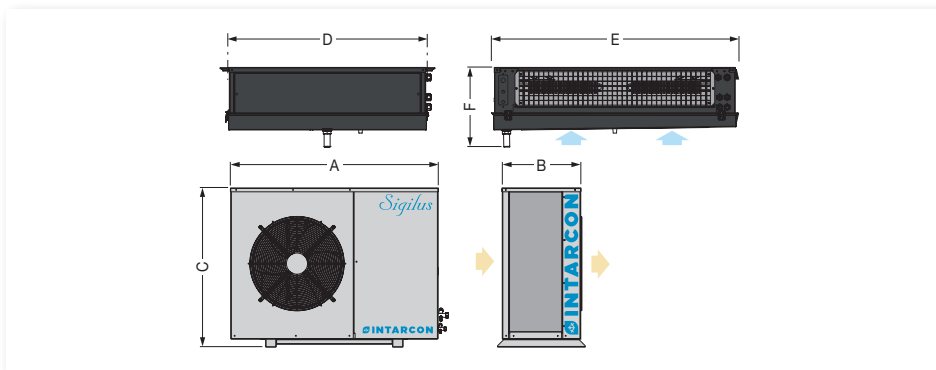
VSH-CG series

■ As standard □ Optional

230V 50Hz / 400V 3N 50Hz | Positive temperature - Wine cellar | Hermetic compressor | R-134a / R-449A

Refrigerant	Series / Model	Compressor		Cellar volume (m³)		Cooling capacity 15 °C 70 % HR (W) ⁽¹⁾	Heating capacity (W)	Input power (W) ⁽²⁾	Input power (W) ⁽³⁾	Max. current (A)	Evap. flow (m³/h)	Cond. flow (m³/h)	Liq-Gas Cooling Connection	Refrig. charge (kg) ⁽⁴⁾	Weight (kg)	SPL dB(A) ⁽⁵⁾	Price (€)
		HP	Power supply	Without insulation	Insulation												
R-134a	VSF-GY-00010A	3/8	230V	11	37	1 242	1 000	1 520	520	8.8	500	350	1/4"-3/8"	<1.5	46+30	28	6 617
	VSF-GY-10015A	1/2	230V	20	53	1 820	1 000	1 670	670	10.1	500	1 700	1/4"-1/2"	<2.0	57+30	34	7 542
	VSF-GY-11033A	1	230V	47	100	3 281	1 500	2 760	1 260	16.3	1 100	1 700	1/4"-5/8"	<2.5	67+35	34	9 078
	VSF-GY-12053A	1 1/2	230V *	74	168	4 683	3 000	4 930	1 930	26.1	1 800	3 200	3/8"-3/4"	<3.5	77+47	35	11 241
	VSF-GY-23074A ⁽⁶⁾	2	230V *	149	297	7 497	6 000	8 600	2 600	43.7	3 150	3 700	3/8"-3/4"	<5.5	79+75	34	14 825
R-449A	VSF-GY-33108A ⁽⁶⁾	5	400V 3N	224	444	9 944	6 000	9 500	3 500	26.1	3 150	4 000	3/8"-7/8"	<6.0	98+75	35	17 359
	VSF-GG-0008A	1/3	230V	10	35	1 227	1 000	1 160	480	8.4	500	350	1/4"-3/8"	<1.5	48+30	28	6 237
	VSF-GG-1014A	1/2	230V	24	60	2 134	1 500	2 550	1 050	13.5	1 100	1 700	1/4"-1/2"	<2.5	59+35	34	7 107
	VSF-GG-1024A	1	230V	47	100	3 388	3 000	4 810	1 810	24.9	1 800	1 700	3/8"-5/8"	<4.0	82+47	34	8 556
	VSF-GG-1034A	1 1/2	230V *	75	170	4 944	3 000	5 550	2 550	29.9	1 800	3 200	3/8"-5/8"	<4.0	83+47	35	10 006
	VSF-GG-2048A ⁽⁶⁾	2	400V 3N	151	300	7 830	6 000	9 190	3 190	17.9	3 150	3 700	1/2"-3/4"	<5.5	84+75	26	13 519
VSF-GG-3060A ⁽⁶⁾	3	400V 3N	221	450	10 490	6 000	10 870	4 870	19.5	5 200	6 500	1/2"-7/8"	<6.5	88+140	26	15 450	

DIMENSIONS



⁽¹⁾ Nominal performances refer to operation with cold room temperatures of 15 °C (PT) with relative humidity cold room of 70 % and ambient temperature of 35 °C. Volume of cold room for the hotel industry estimated without insulation and warehouse volume estimated with 30 mm insulation. Others applications by request.

⁽²⁾ Input power at dehumidification mode.

⁽³⁾ Input power at refrigeration mode.

⁽⁴⁾ Units with refrigerant charge less than 5 tons of CO₂ equivalent (3.5 kg of R-134a or R-449A) exempt from leak checking, Regulation (EU) No 517/2014.

⁽⁵⁾ Sound pressure level, with directivity 1, measured at 10 m from the unit (non-binding value calculated from sound power).

* Available units with 400V 3N 50Hz power supply.

⁽⁶⁾ Standard models with external vapour humidification kit.

Centrifugal version

	Series / Model	HP	Cond. flow (m³/h)	PED (Pa) ⁽⁶⁾	Price (€)
R-134a	VSH-CGY-10010A	3/8	575	80	6 032
	VSH-CGY-21015A	1/2	1 000	120	7 542
	VSH-CGY-22033A	1	1 000	120	9 078
R-449A	VSH-CGY-33053A	1 1/2	1 500	140	11 241
	VSH-CGY-43074A ⁽⁶⁾	2	3 500	100	14 825
	VSH-CGG-2014A	1/2	1 000	120	7 107
	VSH-CGG-2024A	1	1 000	120	8 556
	VSH-CGG-3034A	1 1/2	1 500	140	10 006
VSH-CGG-4048A ⁽⁶⁾	2	3 500	100	13 519	
VSH-CGG-4060A ⁽⁶⁾	3	3 500	100	15 450	

Dimensions (mm)	A	B	C	D	E	F	Evaporator fans
0 and 00 series	671	308	442	764	653	205	1x Ø 254
VSF-GY-10015A	1 030	380	577	764	653	205	1x Ø 254
11 series and VSF-GG-1014A	1 030	380	577	886	728	310	1x Ø 360
12 series, VSF-GG-1024A and 1034A	1 030	380	577	886	1 079	310	2x Ø 360
2 and 23 series	1 080	416	827	886	1 803	310	3x Ø 360
VSF-GY-3310A	1 150	487	1 097	886	1 803	310	3x Ø 360
VSF-GG-3060A	1 150	487	1 097	976	2 203	360	3x Ø 450

HFC cooling connections

INTARCON commercial range split units are delivered pre-adjusted in factory, with a R-134a or R-449A refrigerant charge enough for up to 10 m of cooling pipes.

Condensing units feature service valves and Flare-type connections for a flared copper pipe for diameters up to 3/4" and ready-to-solder connections for diameters from 7/8".

We recommend using the following nominal pipe diameters for both, liquid and gas lines, according to the length of the cooling pipes. For total length longer than 10 m some extra refrigerant and polyester oil (POE) charge must be added as indicated in the following table:

Model	Connections	Connection and recommended liquid-gas pipe diameter depending on pipe length						Additional charge in grams of refrigerant / oil						
		5 m	10 m	15 m	20 m	25 m	30 m	15 m	20 m	25 m	30 m			
R-134a	HIGH TEMPERATURE	- 015	Flare 1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	1/4"-1/2"								
		- 026	Flare 1/4"-1/2"	1/4"-1/2"	1/4"-5/8"	1/4"-5/8"	1/4"-5/8"				125 / 100			
		- 033	Flare 1/4"-5/8"	1/4"-5/8"	1/4"-5/8"	1/4"-3/4"	1/4"-3/4"	1/4"-3/4"	1/4"-3/4"		125 / 150	250 / 300	375 / 450	500 / 450
		- 053	Flare 3/8"-3/4"	3/8"-3/4"	3/8"-3/4"	3/8"-3/4"	3/8"-3/4"	3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	300 / 200	600 / 400	900 / 600	1200 / 600
		- 074	Flare 3/8"-3/4"	3/8"-3/4"	3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	300 / 200	600 / 400	900 / 600	1200 / 600
		- 086	Weld 3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	3/8"-1/8"	3/8"-1/8"	3/8"-1/8"	3/8"-1/8"	300 / 250	600 / 500	900 / 750	1200 / 750
		- 108	Weld 3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	3/8"-1/8"	3/8"-1/8"	3/8"-1/8"	3/8"-1/8"	3/8"-1/8"	300 / 250	600 / 500	900 / 750	1200 / 750
		- 136	Weld 1/2"-1/8"	1/2"-1/8"	1/2"-1/8"	1/2"-1/8"	1/2"-1/8"	1/2"-1/8"	1/2"-1/8"	1/2"-1/8"	600 / 250	1200 / 500	1800 / 750	2400 / 750
		- 160	Weld 1/2"-1/8"	1/2"-1/8"	1/2"-1/8"	1/2"-1/8"	1/2"-1/8"	1/2"-1/8"	1/2"-1/8"	1/2"-1/8"	600 / 250	1200 / 600	1800 / 900	2400 / 900
		- 215	Weld 1/2"-1/8"	1/2"-1/8"	1/2"-1/8"	1/2"-1/8"	1/2"-1/8"	1/2"-1/8"	1/2"-1/8"	1/2"-1/8"	600 / 300	1200 / 600	1800 / 900	2400 / 900
	- 010	Flare 1/4"-3/8"	1/4"-3/8"	1/4"-3/8"	1/4"-1/2"									
	- 01015	Flare 1/4"-3/8"	1/4"-3/8"	1/4"-1/2"	1/4"-1/2"									
	- 1015	Flare 1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	1/4"-5/8"				125 / 100				
	- 026	Flare 1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	1/4"-5/8"	1/4"-5/8"				125 / 100				
	POSITIVE TEMPERATURE	- 033	Flare 1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	1/4"-5/8"	1/4"-5/8"	1/4"-3/4"		125 / 100	250 / 300			
		- 053	Flare 1/4"-5/8"	1/4"-5/8"	1/4"-5/8"	1/4"-5/8"	1/4"-5/8"	1/4"-3/4"		125 / 100	250 / 300			
		- 074	Flare 1/4"-3/4"	1/4"-3/4"	1/4"-3/4"	1/4"-3/4"	1/4"-3/4"	3/8"-7/8"	3/8"-7/8"	125 / 150	1200 / 400	1500 / 600	1800 / 600	
		- 068	Flare 3/8"-3/4"	3/8"-3/4"	3/8"-3/4"	3/8"-3/4"	3/8"-3/4"	3/8"-7/8"	3/8"-7/8"	300 / 200	600 / 400	900 / 600	1200 / 600	
		- 086	Weld 3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	3/8"-1/8"	300 / 200	600 / 400	900 / 750	1200 / 750	
		- 108	Weld 3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	3/8"-1/8"	3/8"-1/8"	300 / 200	600 / 500	900 / 750	1200 / 750	
- 136 / - 171		Weld 3/8"-1/8"	3/8"-1/8"	3/8"-1/8"	3/8"-1/8"	3/8"-1/8"	3/8"-1/8"	3/8"-1/8"	300 / 250	600 / 500	900 / 750	1200 / 750		
- 215		Weld 3/8"-1/8"	3/8"-1/8"	3/8"-1/8"	3/8"-1/8"	1/2"-1/8"	1/2"-1/8"	1/2"-1/8"	600 / 250	1200 / 600	1800 / 900	2400 / 900		
- 271		Weld 1/2"-1/8"	1/2"-1/8"	1/2"-1/8"	1/2"-1/8"	1/2"-1/8"	1/2"-1/8"	1/2"-1/8"	600 / 300	1200 / 600	1800 / 900	2400 / 900		
HIGH TEMPERATURE		- 008 / - 010	Flare 1/4"-3/8"	1/4"-3/8"	1/4"-3/8"	1/4"-3/8"				100 / 25				
	- 012	Flare 1/4"-3/8"	1/4"-3/8"	1/4"-3/8"	1/4"-3/8"	1/4"-3/8"								
	- 014	Flare 1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	3/8"-1/2"	3/8"-1/2"	3/8"-1/2"	3/8"-1/2"	300 / 50	600 / 100	900 / 150	1200 / 150		
	- 016	Flare 1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	3/8"-1/2"	3/8"-1/2"	3/8"-1/2"	3/8"-1/2"	300 / 50	600 / 100	900 / 150	1200 / 150		
	- 018	Flare 1/4"-1/2"	1/4"-1/2"	3/8"-1/2"	3/8"-1/2"	3/8"-1/2"	3/8"-1/2"	3/8"-1/2"	300 / 50	600 / 100	900 / 150	1200 / 150		
	- 024 / - 026	Flare 3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	300 / 100	600 / 200	900 / 300	1200 / 300		
	- 034	Flare 3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-3/4"	3/8"-3/4"	300 / 100	600 / 450	900 / 600	1200 / 600		
	- 038	Flare 3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-3/4"	3/8"-3/4"	3/8"-3/4"	300 / 150	600 / 450	900 / 600	1200 / 600		
	- 048	Flare 1/2"-3/4"	1/2"-3/4"	1/2"-3/4"	1/2"-3/4"	1/2"-3/4"	1/2"-7/8"	1/2"-7/8"	600 / 150	1100 / 300	1700 / 800	2300 / 800		
	- 054	Flare 1/2"-3/4"	1/2"-3/4"	1/2"-3/4"	1/2"-3/4"	1/2"-3/4"	1/2"-7/8"	1/2"-7/8"	600 / 150	1100 / 600	1700 / 800	2300 / 800		
	- 060 / - 068	Weld 1/2"-7/8"	1/2"-7/8"	1/2"-7/8"	1/2"-7/8"	1/2"-7/8"	1/2"-7/8"	1/2"-7/8"	900 / 400	1800 / 800	2700 / 1200	3600 / 1200		
	- 086 / - 108	Weld 5/8"-1/8"	5/8"-1/8"	5/8"-1/8"	5/8"-1/8"	5/8"-1/8"	5/8"-1/8"	5/8"-1/8"	900 / 400	1800 / 800	2700 / 1200	3600 / 1200		
	POSITIVE TEMPERATURE	- 008 / - 010	Flare 1/4"-3/8"	1/4"-3/8"	1/4"-3/8"	1/4"-3/8"				100 / 50				
		- 012	Flare 1/4"-3/8"	1/4"-3/8"	1/4"-3/8"	1/4"-1/2"	1/4"-1/2"							
		- 014	Flare 1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	3/8"-1/2"	3/8"-1/2"	100 / 50	900 / 100			
		- 016	Flare 1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	100 / 50	200 / 100			
		- 018	Flare 1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	100 / 50	200 / 100			
		- 024	Flare 1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	3/8"-1/2"	3/8"-1/2"	100 / 50	900 / 100			
- 026		Flare 3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	300 / 100	600 / 200	900 / 300	1200 / 300		
- 034		Flare 1/4"-5/8"	1/4"-5/8"	1/4"-5/8"	1/4"-5/8"	1/4"-5/8"	3/8"-3/4"	3/8"-3/4"	100 / 25	200 / 50	800 / 200	1000 / 250		
- 038		Flare 3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	300 / 100	600 / 200	900 / 300	1200 / 300		
- 048		Flare 1/2"-3/4"	1/2"-3/4"	1/2"-3/4"	1/2"-3/4"	1/2"-3/4"	1/2"-7/8"	1/2"-7/8"	500 / 125	100 / 250	1500 / 350	2000 / 500		
- 054		Flare 3/8"-3/4"	3/8"-3/4"	3/8"-3/4"	3/8"-3/4"	3/8"-3/4"	3/8"-3/4"	3/8"-3/4"	300 / 75	500 / 125	800 / 200	1000 / 250		
- 060		Flare 1/2"-3/4"	1/2"-3/4"	1/2"-3/4"	1/2"-3/4"	1/2"-7/8"	1/2"-7/8"	1/2"-7/8"	500 / 125	1000 / 250	1500 / 350	2000 / 500		
- 068		Flare 1/2"-7/8"	1/2"-7/8"	1/2"-7/8"	1/2"-7/8"	1/2"-7/8"	1/2"-7/8"	1/2"-7/8"	500 / 125	1000 / 250	1500 / 350	2000 / 500		
- 086		Weld 1/2"-7/8"	1/2"-7/8"	1/2"-7/8"	1/2"-7/8"	1/2"-7/8"	1/2"-7/8"	1/2"-7/8"	600 / 300	1100 / 600	1700 / 800	2300 / 800		
- 108		Weld 1/2"-7/8"	1/2"-7/8"	1/2"-7/8"	1/2"-7/8"	1/2"-7/8"	1/2"-7/8"	1/2"-7/8"	600 / 400	1100 / 800	1700 / 1200	2300 / 1200		
- 136		Weld 1/2"-1/8"	1/2"-1/8"	1/2"-1/8"	1/2"-1/8"	1/2"-1/8"	1/2"-1/8"	1/2"-1/8"	600 / 400	1100 / 800	1700 / 1200	2300 / 1200		
NEGATIVE TEMPERATURE		- 018	Flare 1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	1/4"-1/2"								
		- 026	Flare 3/8"-1/8"	3/8"-1/8"	3/8"-1/8"	3/8"-1/8"	3/8"-1/8"	3/8"-1/8"	3/8"-1/8"	250 / 200	500 / 400	750 / 500	1000 / 750	
	- 034	Flare 1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	1/4"-1/2"	3/8"-5/8"	3/8"-5/8"	100 / 100					
	- 055	Flare 3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-3/4"	3/8"-3/4"	300 / 300	600 / 450	900 / 600	1200 / 600		
	- 075	Flare 1/4"-5/8"	1/4"-5/8"	1/4"-5/8"	1/4"-5/8"	1/4"-5/8"	1/4"-3/4"	1/4"-3/4"	100 / 75	200 / 150	250 / 200	300 / 250		
	- 096	Flare 3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-5/8"	3/8"-3/4"	3/8"-3/4"	300 / 300	600 / 450	900 / 800	1200 / 800		
	- 108	Weld 3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	160 / 100	320 / 200	480 / 300	640 / 400		
	- 136	Weld 3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	3/8"-7/8"	3/8"-11/8"	3/8"-11/8"	3/8"-11/8"	160 / 100	320 / 200	560 / 350	740 / 460		
	- 215	Weld 1/2"-11/8"	1/2"-11/8"	1/2"-11/8"	1/2"-11/8"	1/2"-11/8"	1/2"-11/8"	1/2"-11/8"	190 / 120	370 / 230	560 / 350	740 / 460		
	- 271	Weld 1/2"-13/8"	1/2"-13/8"	1/2"-13/8"	1/2"-13/8"	1/2"-13/8"	1/2"-13/8"	1/2"-13/8"	240 / 150	470 / 290	760 / 300	1010 / 630		