IZSI Condensing Unit
for Refrigeration Applications

Product catalogue

COPELAND™

EMERSON™

Table of contents

Nomenclature

Condensing Unit Series
I Indoor Type CDU

Operating Range
F Low Temperature

Chassis: A, B, C

Lubricant
Blank Mineral oil
E POE oil

Bill of material
30X - 50Hz
32X - 60Hz

I Z S I 0 6 A E - P F Z - X X X

Compressor Type
Z Scroll

Technology
I Vapor Injection

Compressor Capacity
@ Rating Condition Z

Motor Code

Motor type
T Three-phase motor

Motor protection
F Internal inherent protection

Electrical codes

	50 Hz	60 Hz
C	---	208-230 V
D	380-420 V	460 V

IZSI Condensing units for refrigeration applications

Bill of material

Standard BOM Content	BOM				
	300	301*	302*	303*	304*
CoreSense™	✓	✓	✓	✓	✓
Electrical Box	✓	✓	✓	✓	✓
Crank Case Heater	✓	✓	✓	✓	✓
Solenoid Valve	✓	✓	✓	✓	✓
Filter Drier – Flare Connection	✓	✓	✓	✓	✓
Moisture Indicator / Sight Glass	✓	✓	✓	✓	✓
Dual Pressure Switch	✓	✓	✓	✓	✓
Receiver with Valve	✓	✓	✓	✓	✓
Accumulator			✓	✓	
Oil Separator			✓		✓
Fan Motor	✓	✓	✓	✓	✓
Heat Exchanger	✓	✓	✓	✓	✓
Compressor with Stub Tube	✓		✓	✓	✓
Canopy Enclosure			✓		
Compressor with Rotalock Connections		✓			

*To be released in the future

Layout


Rotalock Valve With
Schraeder Valve for Receiver
Receiver
Filter Drier
Dual Pressure
Switch
Sight Glass
Solenoid
Valve
ZSI Scroll
Compressor
CoreSense™
Terminal Box

Key features

Save on Applied Costs and Assembly Time

- IZSI comes with accessories (e.g. filter drier, sight glass and moisture indicator, electrical contactor) thus simplifying component sourcing
- Consistent quality achieved through factory built Condensing Unit

CoreSense™ for Copeland Scroll Compressors

- Low temperature operation reliability due to liquid injection technology
- Onboard control for Liquid injection by sensing Discharge Line Temperature (DLT)
- Direct communication function by using Led inside CoreSense™

Wide Range Operating Envelope

- Low temperature to medium temperature from -300C to 50C evaporating temperature
- Low temperature operation reliability by CoreSense™
- Reduced inventrory levels due to wide range application

Qualified for R404A, R134a*, R407*

- Multi refrigerants capability

Scroll Efficiency and Reliability

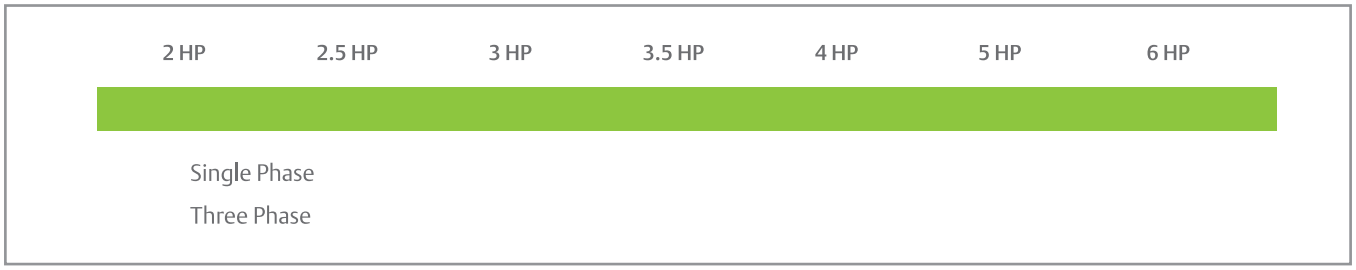
- COP improvement leads to annual electrical savings of 10-30% as compared with reciprocating systems
- 70% fewer moving parts than reciprocating
- Superior liquid handling

Operating envelopes

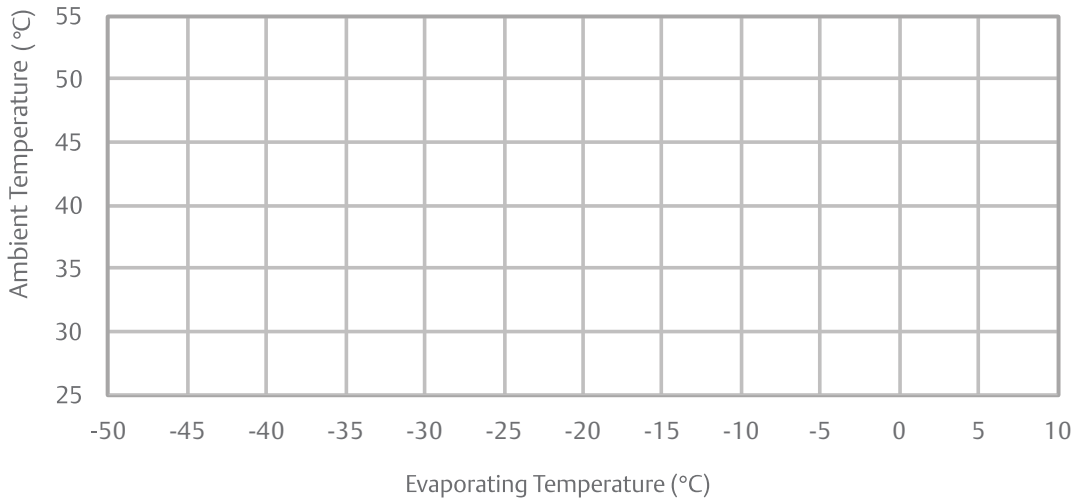
R22/ R404A

50Hz

IZSI Product Range



Operating Envelope



Performance data

Capacity and Power (kW), 50Hz - PFZ/TFM

R22

Model	Ambient Temperature °C	Capacity Evaporating Temperature								Power Evaporating Temperature							
		-30	-25	-20	-15	-10	-5	0	5	-30	-25	-20	-15	-10	-5	0	5
IZSI06A	27	1.65	2.09	2.56	3.08	3.68	4.39	5.24	6.23	1.43	1.48	1.52	1.57	1.62	1.67	1.72	1.78
	32	1.60	2.04	2.49	2.99	3.56	4.23	5.04	5.98	1.59	1.64	1.70	1.75	1.81	1.86	1.92	1.97
	38	1.56	1.98	2.41	2.87	3.40	4.03	4.77	5.64	1.79	1.86	1.93	1.99	2.05	2.11	2.17	2.22
	43	1.50	1.91	2.31	2.74	3.23	3.79	4.46	5.25	1.96	2.04	2.12	2.20	2.27	2.34	2.41	2.47
IZSI08A	27	2.04	2.48	3.02	3.66	4.37	5.14	5.94	6.77	1.87	1.90	1.96	2.04	2.12	2.19	2.23	2.23
	32	1.94	2.35	2.86	3.47	4.15	4.89	5.67	6.48	2.00	2.03	2.09	2.17	2.26	2.33	2.38	2.39
	38	1.80	2.18	2.66	3.24	3.89	4.60	5.35	6.12	2.18	2.21	2.28	2.37	2.47	2.56	2.64	2.67
	43	1.68	2.03	2.49	3.03	3.65	4.33	5.05	5.80	2.35	2.39	2.47	2.59	2.72	2.85	2.96	3.05
IZSI09B	27	2.10	2.67	3.32	4.07	4.93	5.91	7.03	8.29	1.79	1.84	1.90	1.97	2.05	2.12	2.17	2.21
	32	2.01	2.55	3.17	3.88	4.70	5.63	6.70	7.92	1.98	2.03	2.10	2.17	2.25	2.32	2.39	2.43
	38	1.90	2.41	2.98	3.65	4.41	5.29	6.30	7.45	2.22	2.28	2.35	2.43	2.52	2.60	2.67	2.73
	43	1.82	2.29	2.83	3.45	4.17	4.98	5.91	6.97	2.40	2.47	2.56	2.66	2.77	2.87	2.98	3.07
IZSI11B	27	2.88	3.56	4.30	5.14	6.13	7.29	8.65	10.24	2.22	2.33	2.43	2.52	2.63	2.77	2.94	3.18
	32	2.72	3.36	4.06	4.86	5.81	6.92	8.24	9.78	2.38	2.49	2.59	2.68	2.79	2.93	3.11	3.35
	38	2.53	3.13	3.79	4.54	5.43	6.49	7.74	9.22	2.62	2.74	2.83	2.93	3.05	3.20	3.39	3.66
	43	2.39	2.96	3.58	4.29	5.12	6.11	7.28	8.67	2.90	3.03	3.14	3.26	3.40	3.58	3.83	4.17
IZSI14C	27	3.47	4.40	5.39	6.50	7.75	9.18	10.83	12.73	2.56	2.65	2.79	2.96	3.14	3.31	3.43	3.51
	32	3.29	4.18	5.13	6.17	7.36	8.72	10.30	12.12	2.83	2.95	3.11	3.29	3.48	3.66	3.79	3.87
	38	3.07	3.92	4.81	5.79	6.90	8.18	9.67	11.39	3.21	3.36	3.55	3.75	3.96	4.14	4.29	4.37
	43	2.91	3.72	4.57	5.49	6.53	7.72	9.11	10.72	3.55	3.74	3.96	4.20	4.44	4.65	4.83	4.94
IZSI15C	27	4.15	5.11	6.15	7.31	8.64	10.18	11.95	13.98	2.95	3.07	3.24	3.45	3.67	3.89	4.09	4.24
	32	3.90	4.81	5.79	6.88	8.14	9.59	11.27	13.22	3.22	3.37	3.56	3.79	4.02	4.25	4.46	4.63
	38	3.61	4.46	5.37	6.39	7.55	8.91	10.49	12.34	3.61	3.79	4.01	4.26	4.52	4.77	5.00	5.18
	43	3.44	4.25	5.09	6.03	7.11	8.36	9.84	11.57	3.97	4.20	4.46	4.75	5.05	5.35	5.62	5.86
IZSI18D	27	5.09	6.22	7.54	9.07	10.83	12.80	15.00	17.43	3.43	3.55	3.71	3.90	4.13	4.39	4.66	4.96
	32	4.88	5.97	7.24	8.70	10.37	12.25	14.35	16.66	3.84	4.01	4.20	4.42	4.66	4.93	5.21	5.49
	38	4.61	5.65	6.84	8.22	9.78	11.55	13.52	15.71	4.47	4.67	4.89	5.12	5.37	5.63	5.90	6.16
	43	4.36	5.35	6.49	7.79	9.27	10.94	12.81	14.89	5.02	5.25	5.48	5.73	5.97	6.22	6.45	6.68

Notes: 1. All values are rated at return gas temperature: 18.33 °C and subcooling: 2.77 °C
2. Units are in Kilowatts (kW) for Capacity and Power

Performance data

Capacity and Power (kW), 50Hz - PFZ/TFM

R404A

Model	Ambient Temperature °C	Capacity Evaporating Temperature								Power Evaporating Temperature							
		-30	-25	-20	-15	-10	-5	0	5	-30	-25	-20	-15	-10	-5	0	5
IZSI06AE	27	1.98	2.42	2.93	3.51	4.16	4.88	5.67	6.53	1.64	1.71	1.77	1.82	1.88	1.93	1.97	2.01
	32	1.85	2.25	2.72	3.26	3.86	4.53	5.27	6.07	1.77	1.82	1.88	1.94	1.99	2.05	2.09	2.14
	38	1.67	2.04	2.46	2.95	3.50	4.11	4.78	5.52	1.94	1.99	2.05	2.11	2.16	2.22	2.27	2.33
	43	1.52	1.86	2.25	2.70	3.20	3.77	4.39	5.07	2.13	2.18	2.24	2.29	2.35	2.41	2.47	2.53
IZSI08AE	27	2.26	2.78	3.36	4.02	4.76	5.57	6.46	7.43	2.03	2.08	2.14	2.22	2.30	2.37	2.42	2.44
	32	2.11	2.59	3.13	3.75	4.43	5.18	6.01	6.92	2.16	2.20	2.27	2.34	2.42	2.49	2.55	2.58
	38	1.91	2.35	2.85	3.40	4.03	4.71	5.47	6.30	2.34	2.38	2.45	2.53	2.61	2.68	2.75	2.78
	43	1.74	2.15	2.61	3.12	3.70	4.33	5.03	5.80	2.55	2.59	2.65	2.73	2.82	2.90	2.97	3.01
IZSI09BE	27	2.71	3.32	4.00	4.76	5.60	6.53	7.55	8.64	1.90	2.04	2.14	2.20	2.27	2.36	2.49	2.68
	32	2.48	3.05	3.69	4.39	5.17	6.03	6.97	7.98	2.09	2.23	2.33	2.39	2.46	2.55	2.68	2.88
	38	2.16	2.69	3.27	3.92	4.63	5.42	6.28	7.22	2.37	2.50	2.59	2.66	2.72	2.81	2.94	3.13
	43	1.89	2.40	2.95	3.55	4.22	4.95	5.76	6.64	2.66	2.78	2.86	2.92	2.97	3.05	3.17	3.36
IZSI11BE	27	3.09	3.89	4.74	5.68	6.72	7.89	9.20	10.65	2.08	2.29	2.43	2.53	2.63	2.77	2.99	3.31
	32	2.91	3.66	4.46	5.32	6.29	7.37	8.59	9.94	2.36	2.58	2.73	2.83	2.93	3.07	3.28	3.58
	38	2.69	3.38	4.10	4.88	5.75	6.72	7.83	9.06	2.80	3.02	3.15	3.24	3.33	3.44	3.62	3.90
	43	2.49	3.13	3.79	4.49	5.28	6.16	7.16	8.28	3.24	3.44	3.55	3.61	3.67	3.76	3.90	4.14
IZSI14CE	27	3.99	4.92	5.98	7.17	8.49	9.94	11.51	13.21	2.88	2.98	3.15	3.35	3.55	3.73	3.87	3.93
	32	3.73	4.59	5.57	6.68	7.90	9.24	10.71	12.29	3.11	3.21	3.37	3.57	3.77	3.96	4.11	4.19
	38	3.40	4.19	5.08	6.07	7.18	8.39	9.71	11.15	3.45	3.54	3.70	3.90	4.12	4.33	4.50	4.61
	43	3.13	3.85	4.66	5.57	6.57	7.68	8.89	10.20	3.83	3.91	4.07	4.28	4.51	4.74	4.93	5.07
IZSI15CE	27	4.31	5.42	6.58	7.84	9.24	10.79	12.51	14.42	3.18	3.23	3.37	3.59	3.87	4.19	4.54	4.89
	32	4.09	5.15	6.23	7.40	8.67	10.08	11.65	13.39	3.52	3.61	3.78	4.00	4.28	4.58	4.90	5.21
	38	3.83	4.80	5.78	6.81	7.92	9.15	10.52	12.06	3.83	4.80	5.78	6.81	7.92	9.15	10.52	12.06
	43	3.57	4.46	5.33	6.22	7.18	8.25	9.44	10.77	4.32	4.51	4.74	4.98	5.25	5.51	5.76	5.97
IZSI18DE	27	5.78	7.03	8.46	10.05	11.81	13.74	15.83	18.07	3.85	4.05	4.30	4.59	4.89	5.18	5.44	5.64
	32	5.46	6.63	7.96	9.43	11.07	12.86	14.80	16.89	4.18	4.37	4.62	4.91	5.22	5.51	5.77	5.98
	38	5.02	6.10	7.31	8.65	10.13	11.75	13.51	15.42	4.65	4.84	5.09	5.38	5.69	5.99	6.26	6.47
	43	4.59	5.59	6.70	7.94	9.31	10.82	12.47	14.27	5.21	5.38	5.61	5.89	6.18	6.47	6.73	6.94

Notes: 1. All values are rated at return gas temperature: 18.33 °C and subcooling: 2.77 °C
2. Units are in Kilowatts (kW) for Capacity and Power

Technical data

R22

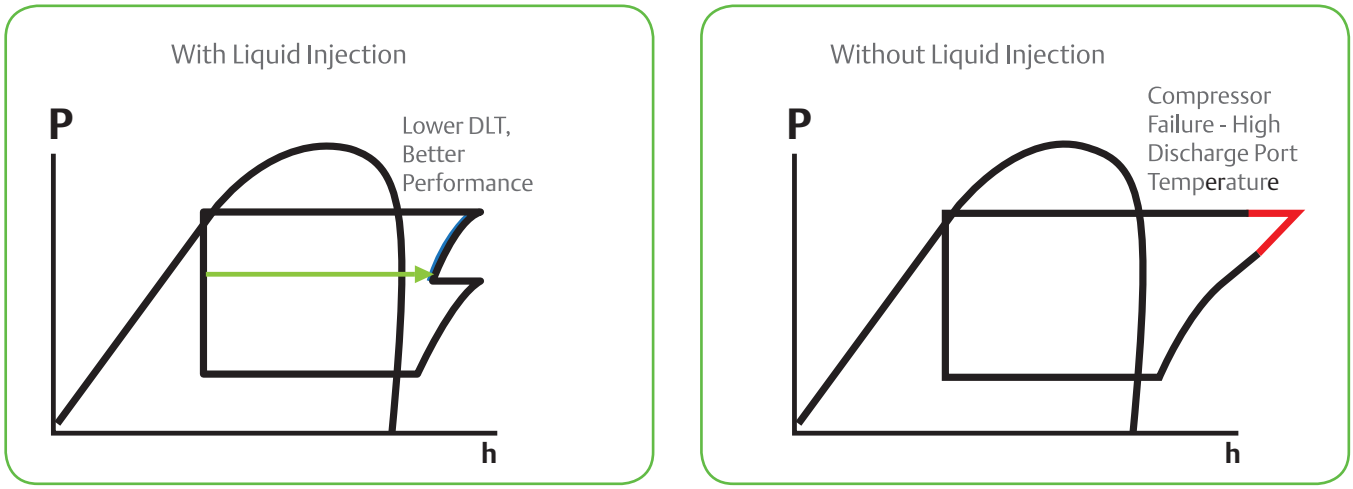
Family				IZSI						
Nominal Rating	Horsepower		HP	2.0	2.5	3.0	3.5	4.0	5.0	6.0
Model Name				IZSI06A	IZSI08A	IZSI09B	IZSI11B	IZSI14C	IZSI15C	IZSI18D
Compressor	Model Name	R22		ZSI06KQ	ZSI08KQ	ZSI09KQ	ZSI11KQ	ZSI14KQ	ZSI15KQ	ZSI18KQ
	Rated Load Ampere	R22	Amp	11	12	5	7.1	7.8	8.4	9.5
	Locked Rotor Ampere	R22	Amp	57	72	40	52	52	52	74
	Oil Type	R22		Mineral	Mineral	Mineral	Mineral	Mineral	Mineral	Mineral
	Oil Recharge Volume	R22	mL	562	562	562	1242	1242	1242	1774
Others	Oil Separator	Volume	Liters	0.6	0.6	0.6	1.2	1.2	1.2	1.8
	Receiver Volume	R22	Liters	2.5	2.5	5.0	5.0	5.0	5.0	7.0
	Dimension	WxDxH	mm	716 x 538 x 470	716 x 538 x 470	738 x 674 x 521	738 x 674 x 521	738 x 674 x 572	738 x 674 x 572	1045 x 679 x 557
	Weight	Net	kg	65	65	70	78	80	80	85

R404A

Family				IZSI						
Nominal Rating	Horsepower		HP	2.0	2.5	3.0	3.5	4.0	5.0	6.0
Model Name				IZSI06AE	IZSI08AE	IZSI09BE	IZSI11BE	IZSI14CE	IZSI15CE	IZSI18DE
Compressor	Model Name	R404A		ZSI06KQE	ZSI08KQE	ZSI09KQE	ZSI11KQE	ZSI14KQE	ZSI15KQE	ZSI18KQE
	Rated Load Ampere	R404A	Amp	13	13	6	8	9	10	11
	Locked Rotor Ampere	R404A	Amp	57	72	40	52	52	52	74
	Oil Type	R404A		POE	POE	POE	POE	POE	POE	POE
	Oil Recharge Volume	R404A	mL	562	562	562	1242	1242	1242	1774
Others	Oil Separator	Volume	Liters	0.56	0.56	0.56	1.24	1.24	1.24	1.77
	Receiver Volume	R404A	Liters	2.5	2.5	5.0	5.0	5.0	5.0	7.0
	Dimension	WxDxH	mm	716 x 538 x 470	716 x 538 x 470	738 x 674 x 521	738 x 674 x 521	738 x 674 x 572	738 x 674 x 572	1045 x 679 x 557
	Weight	Net	kg	65	65	70	78	80	80	85

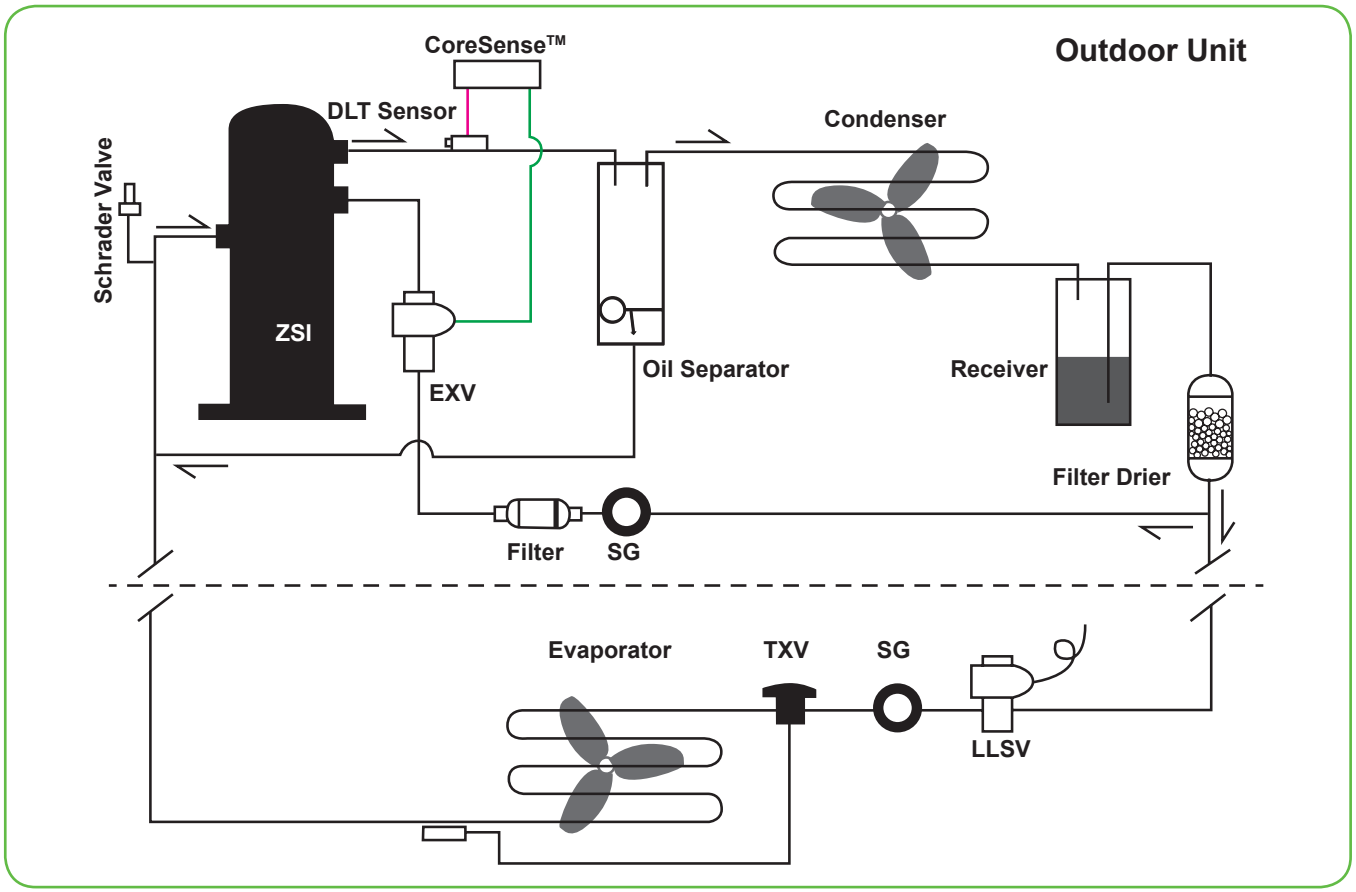
Liquid Injection Technology for Efficient Operation

IZSI indoor condensing unit powered by Copeland Scroll™ comes with Liquid Injection technology for improved performance and reliability. High discharge temperature is often a cause of compressor failure. To prevent this, refrigerant is injected mid-pocket of the scroll. The compressor then works similarly as a two-stage compressor thereby lowering discharge line temperature and improving performance.



Liquid Injection Protects Compressor From Failure by Preventing Too High Discharge Temperature
Liquid Injection Helps Provide Wide Range Operating Envelope

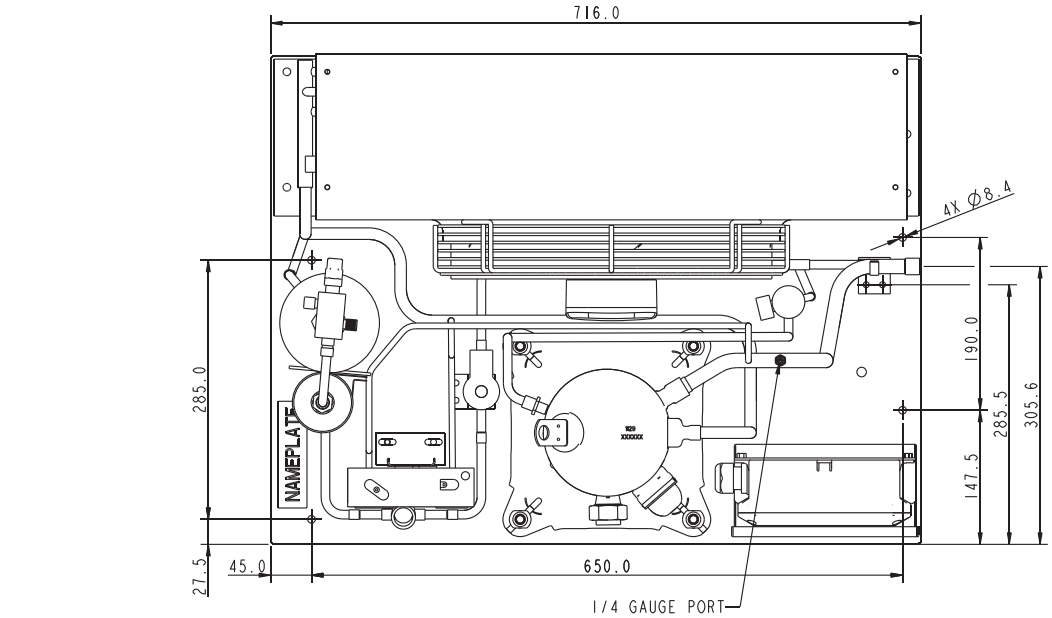
Schematic Diagram

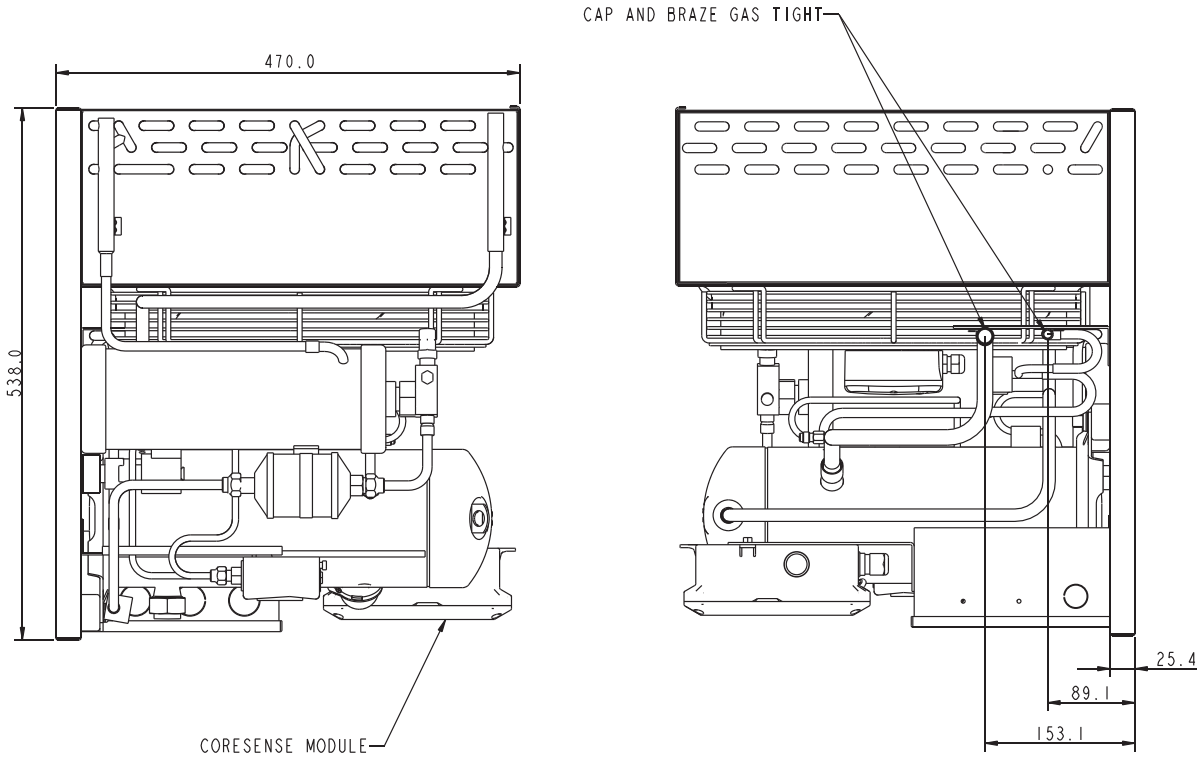


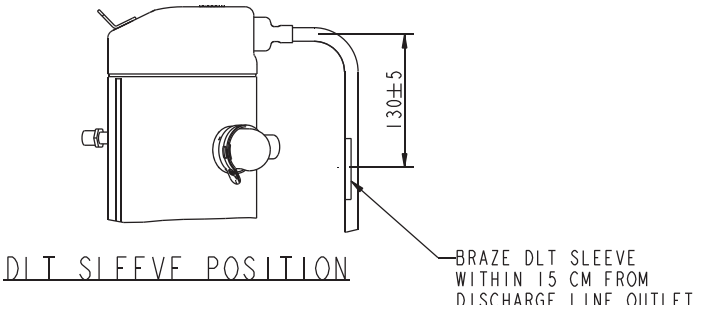
- Similar to a 2-stage Cycle but Accomplished with Single Scroll Compressor
- Liquid Injection Controlled by CoreSense™ Module
- DLT Sensor Signals EXV to Control the Flow Depending on Discharge Line Temperature

Dimensional drawings

IZSI06A, IZSI08A, IZSI06AE, IZSI08AE

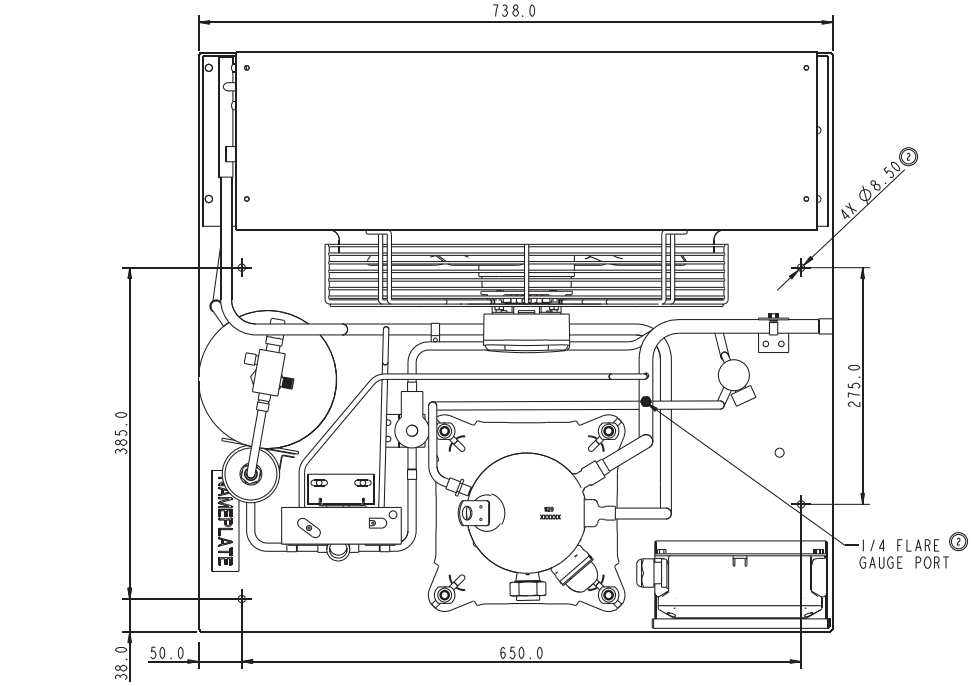


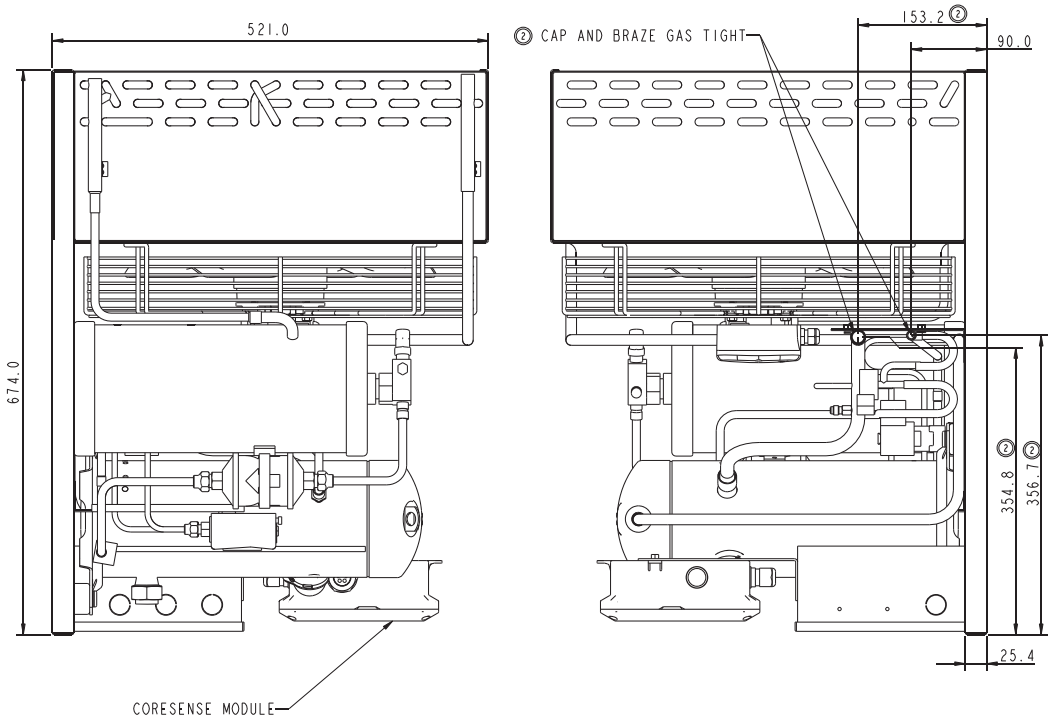


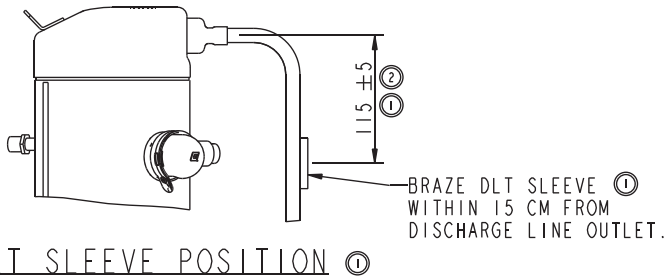


Dimensional drawings

IZSI09B, IZSI09BE



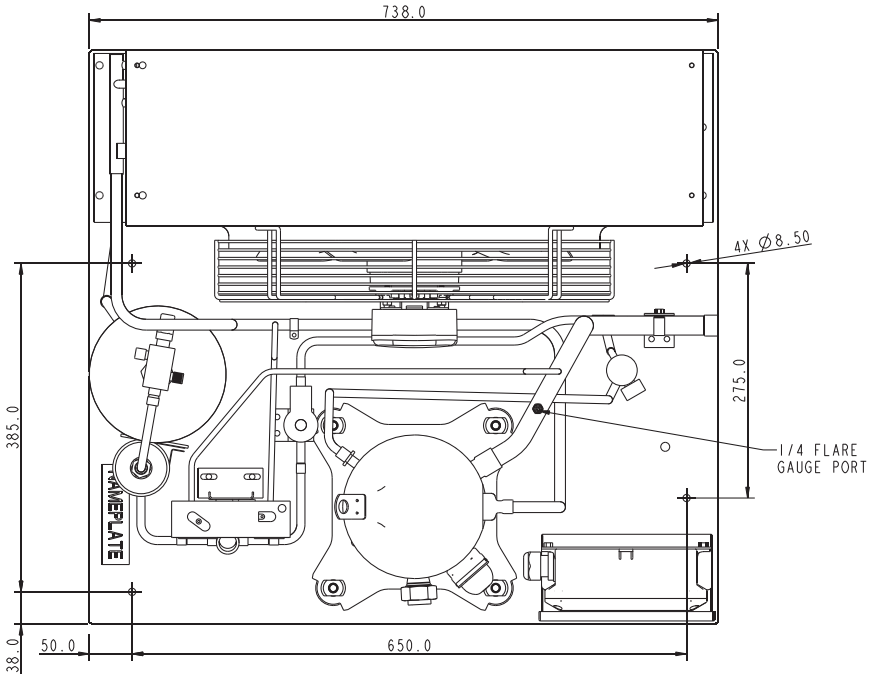


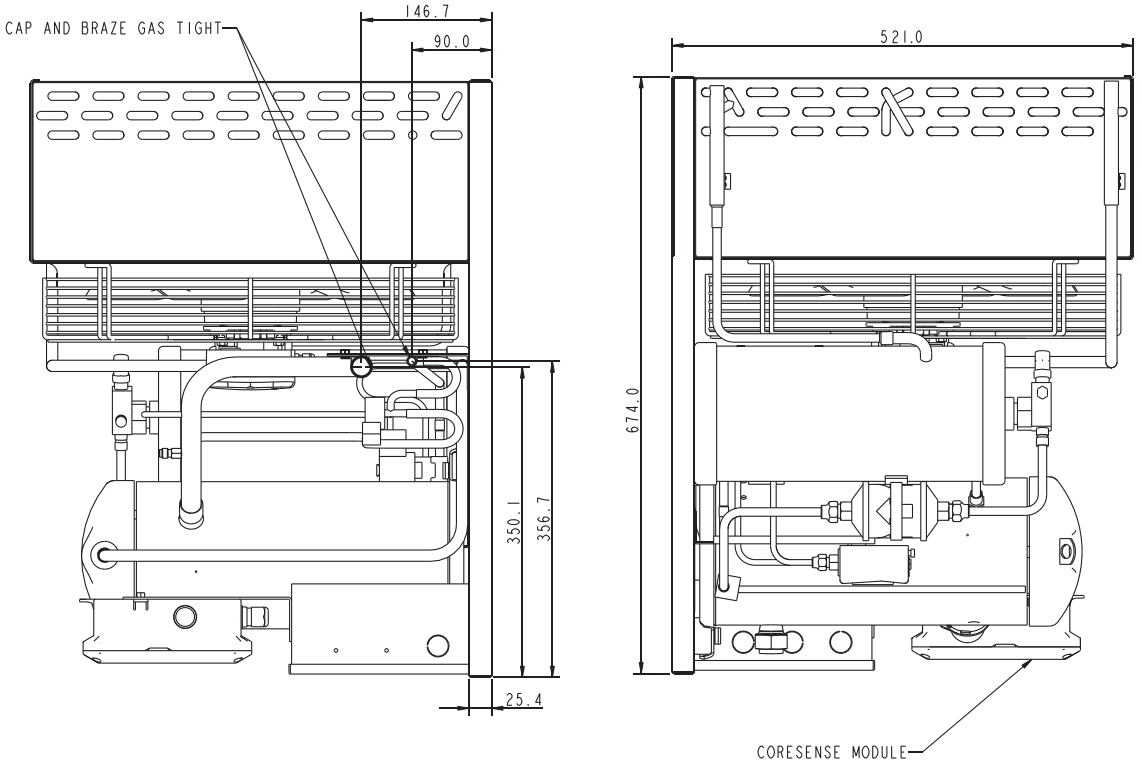


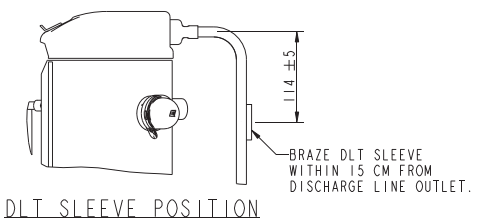
DLT SLEEVE POSITION ①

Dimensional drawings

IZSI11B, IZSI11BE



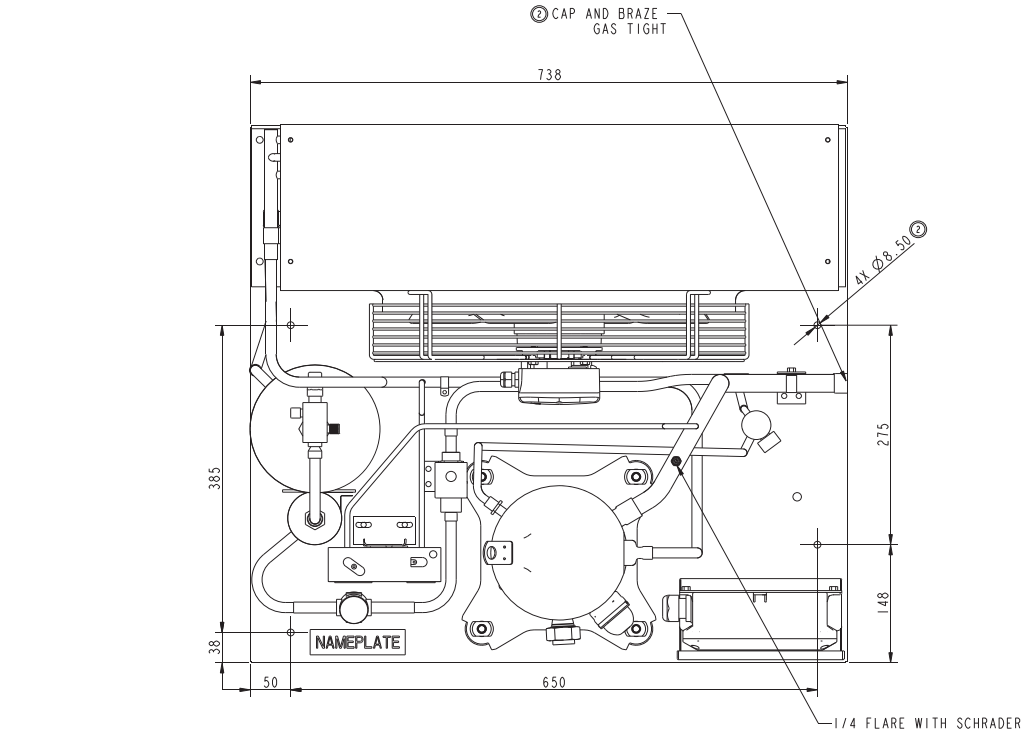


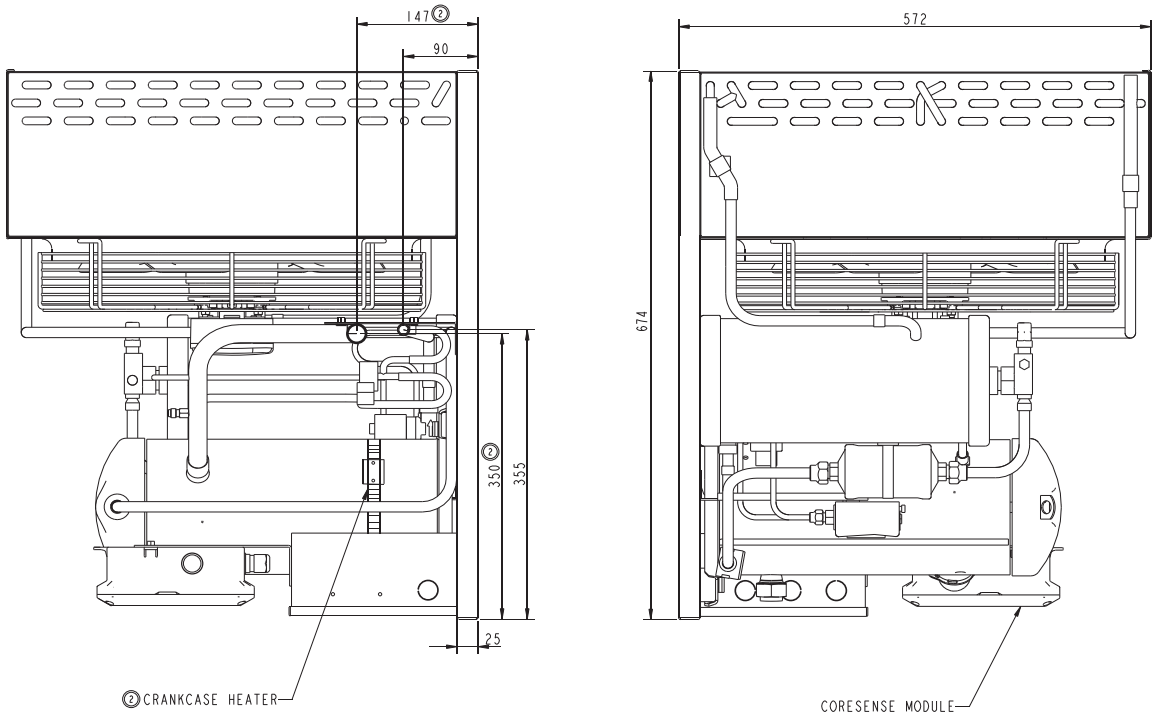


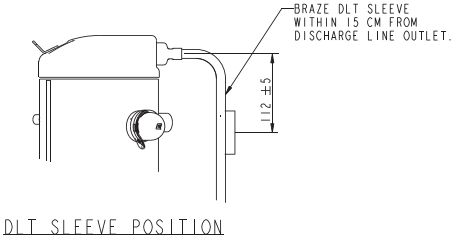
DLT SLEEVE POSITION

Dimensional drawings

IZSI14C, IZSI15C, IZSI14CE, IZSI15CE



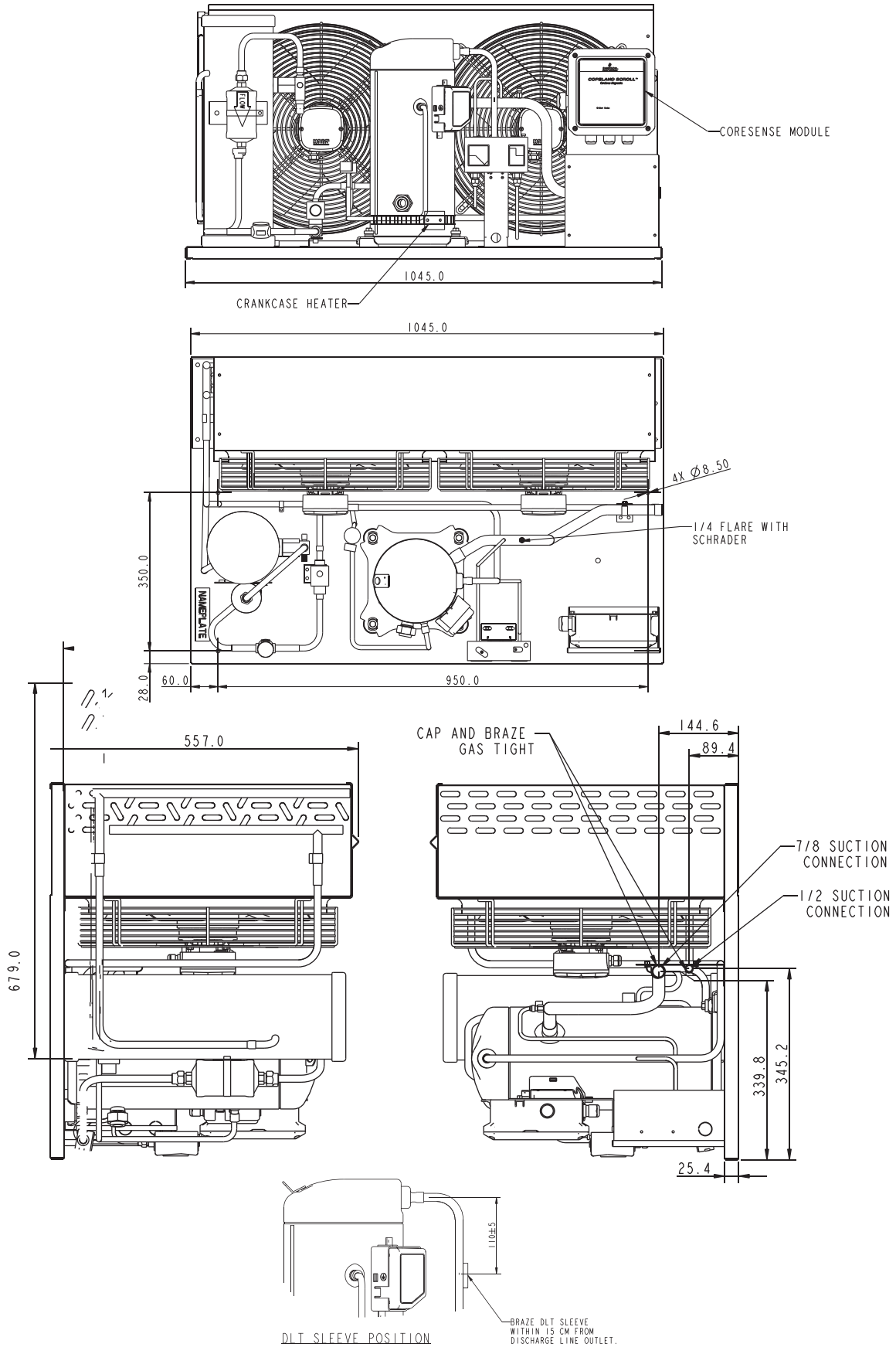




DLT SLEEVE POSITION

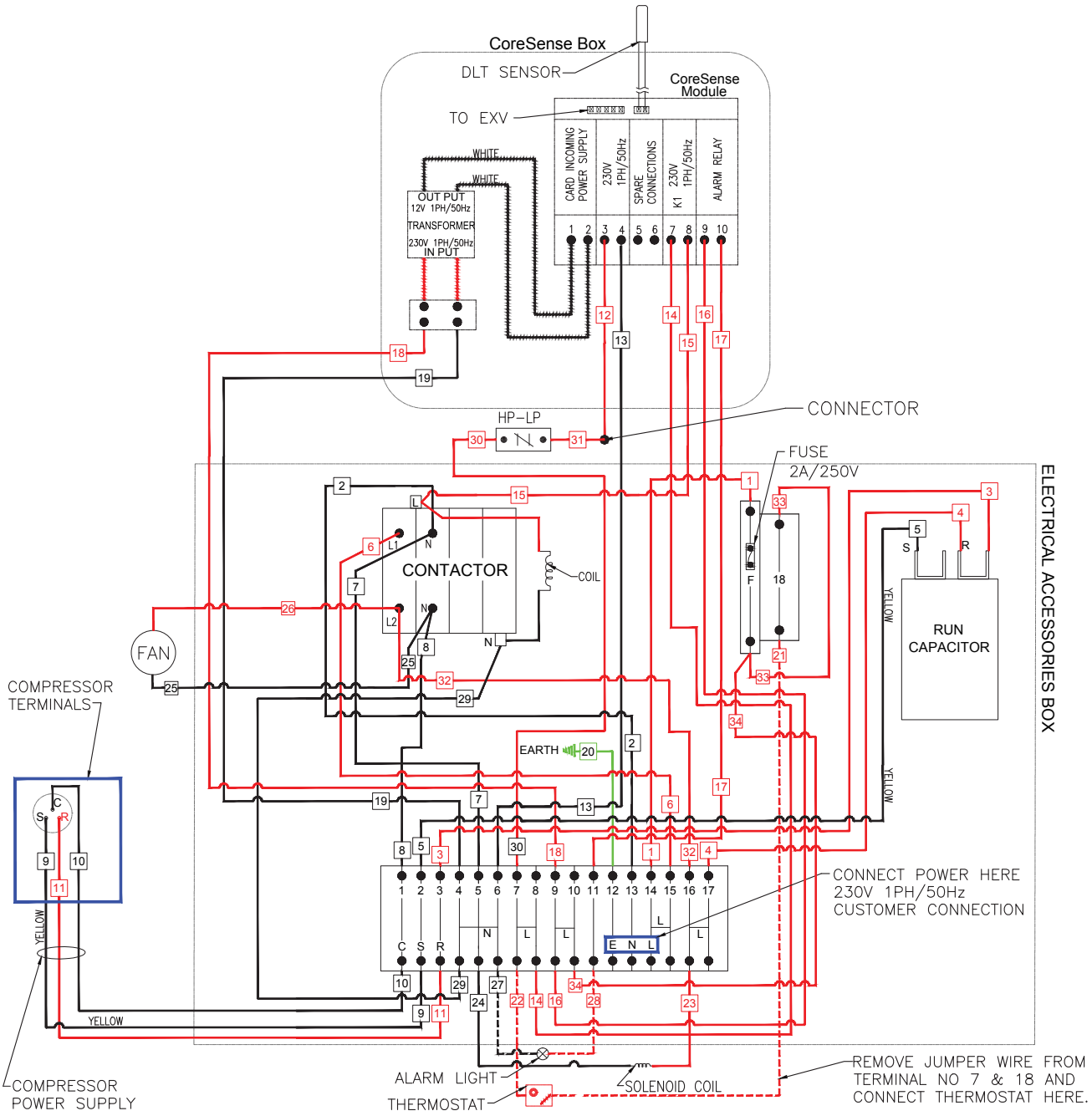
Dimensional drawings

IZSI18D, IZSI18DE



Wiring Diagram

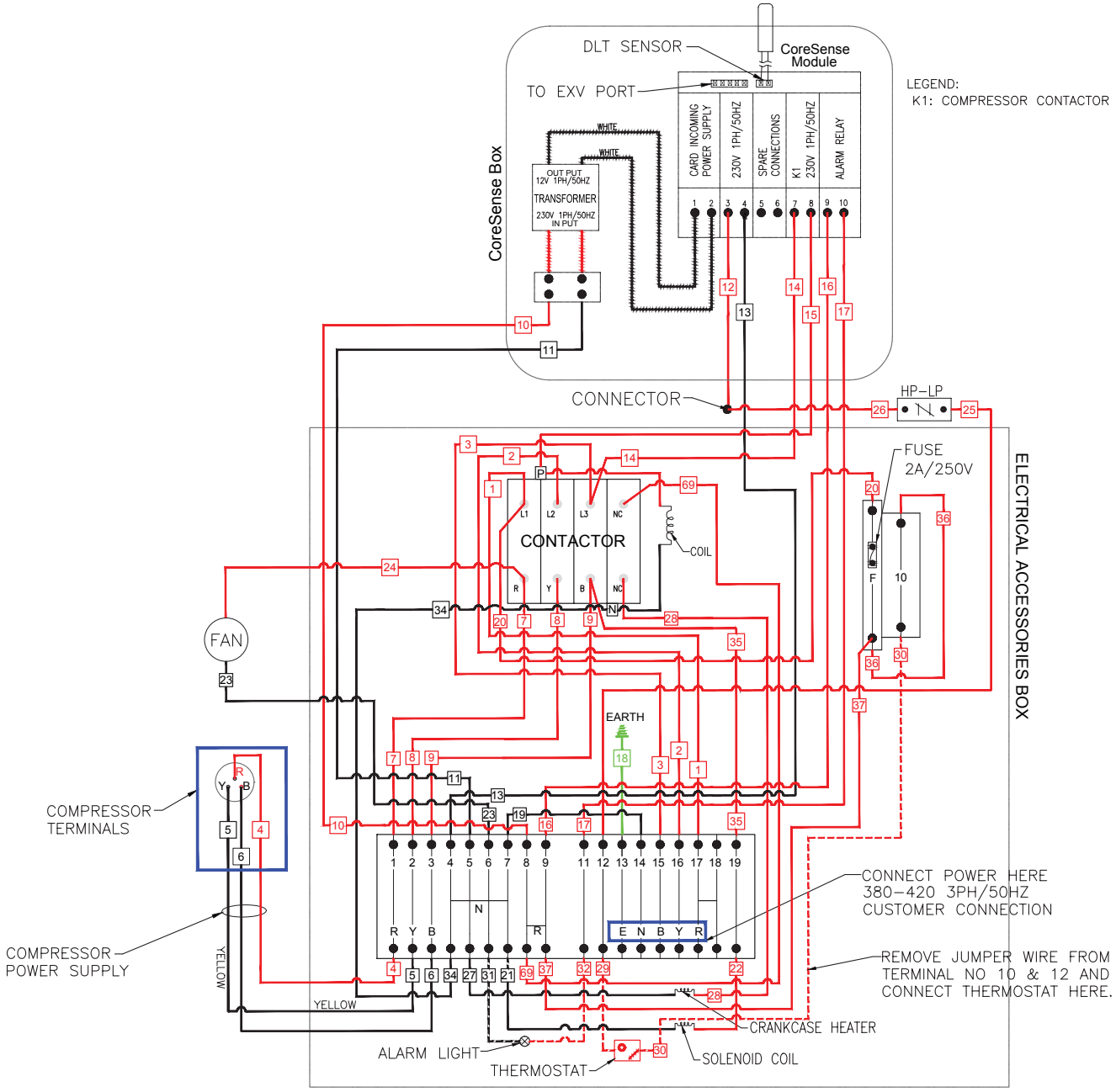
IZSI06A, IZSI08A, IZSI06AE, IZSI08AE



CONNECTIONS CHART	
FERRULE No. ON WIRES	USED FOR CONNECTING
23 24	TO SOLENOID COIL 230V 1PH/50Hz
21 22	TO THERMOSTAT
25 26	TO FAN
27 28	TO ALARM LIGHT
30 31	TO HP/LP
9 10 11	TO COMPRESSOR

Wiring Diagram

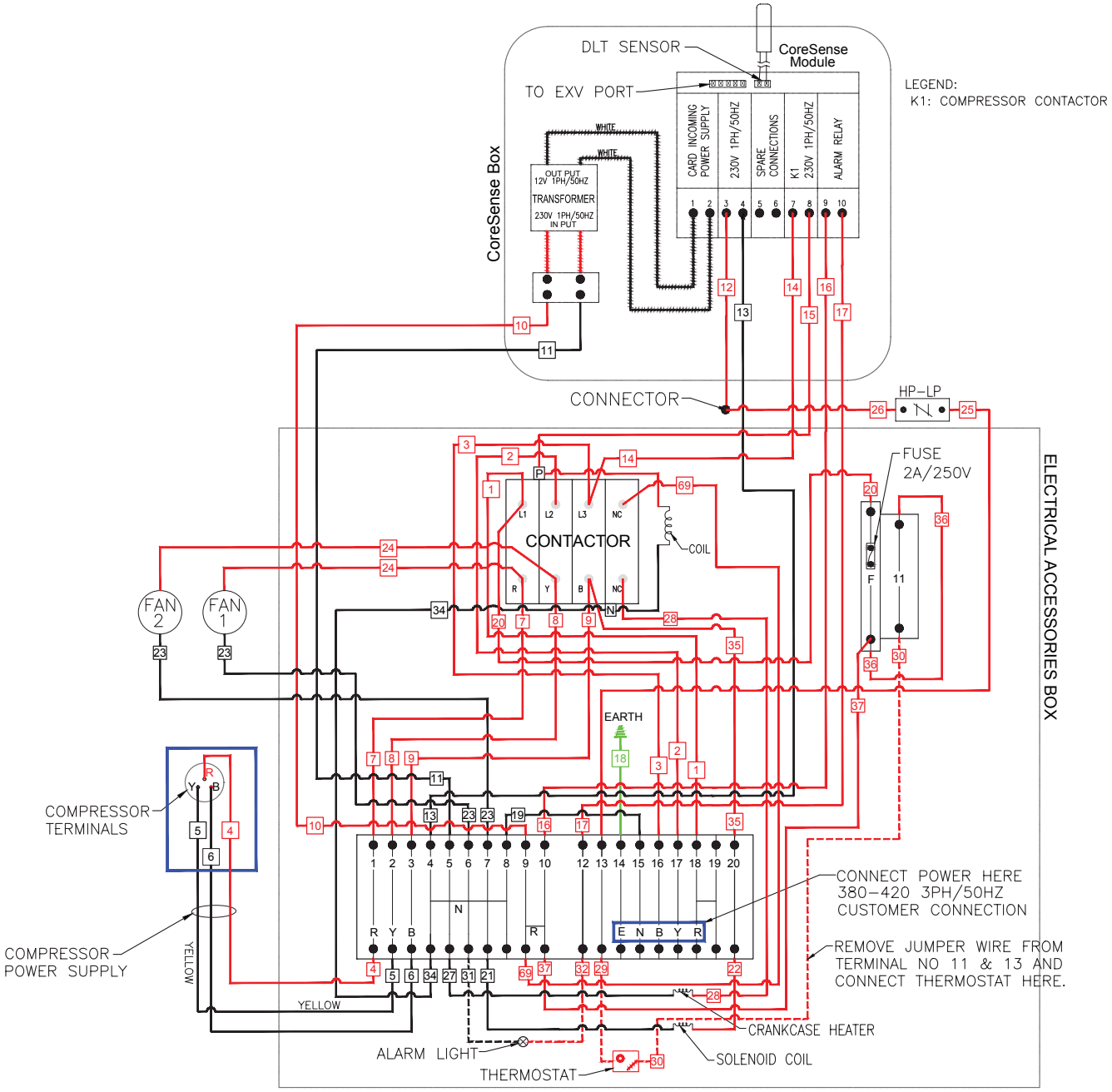
IZSI06A, IZSI08A, IZSI09B, IZSI11B, IZSI14C, IZSI15C, IZSI06AE, IZSI08AE IZSI09BE, IZSI11BE, IZSI14CE, IZSI15CE



CONNECTIONS CHART	
FERRULES No. ON WIRES	FOR CONNECTING
21 22	TO SOLENOID COIL 230V 1PH/50Hz
29 30	TO THERMOSTAT
23 24	TO FAN
31 32	TO ALARM LIGHT
25 26	TO HP/LP
4 5 6	TO COMPRESSOR
27 28	CRANKCASE HEATER

Wiring Diagram

IZSI18D, IZSI18DE



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FERRULES No. ON WIRES	FOR CONNECTING
21 22	TO SOLENOID COIL 230V 1PH/50Hz
29 30	TO THERMOSTAT
23 24	TO FAN
31 32	TO ALARM LIGHT
25 26	TO HP/LP
4 5 6	TO COMPRESSOR
27 28	CRANKCASE HEATER

General information

Technical data are correct at the time of printing. Updates may occur, and should you need confirmation of a specific value, please contact Emerson clearly stating the information required.

Emerson cannot be held responsible for errors in capacities, dimensions, etc., stated herein. Products, specifications and data in this literature are subject to change without notice.

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The suitability for this has to be assured from the plant manufacturer, which may include making appropriate tests.

Note:

The components listed in this catalogue are not released for use with caustic, poisonous or flammable substances. Emerson cannot be held responsible for any damage caused by using these substances.

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