Rank.® ORC 1MWt

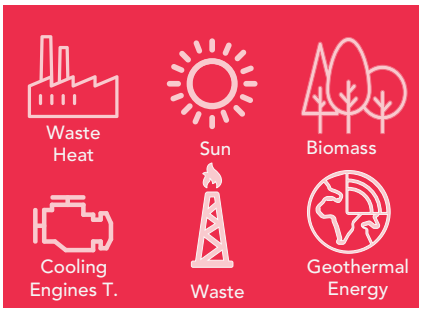
Example point of operation

W1.1

Selected operating point

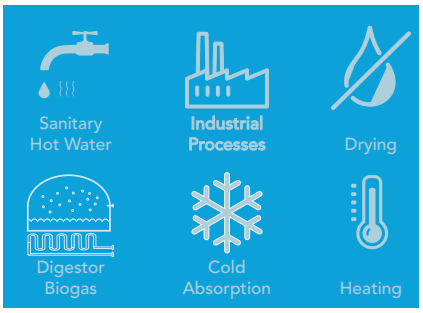
Water-Water Generator Power

Heat source: Tin (ºC)	Useful heat / Disipation: Tout (ºC)					
170	126	123	119	110	96
150	119	114	108	88	75
130	117	97	80	75	56
110	108	86	71	-	-
90	83	66	-	-	-
Tin (ºC)	10	25	40	55	70
Tout (ºC)	20	35	50	65	80



Heat source

Heat transfer fluid	Agua
Inlet temperature	170 °C
Outlet temperature	150 °C
Volumetric flow rate	46 m³/h
Thermal power	1.000 kWt
Pressure drop	100 kPa



Useful heat Disipation

Heat transfer fluid	Agua
Inlet temperature	10 °C
Outlet temperature	20 °C
Volumetric flow rate	62 m³/h
Thermal power	721 kWt
Pressure drop	100 kPa

Electricity

Gross power	126 kWe
Net power	114 kWe
Voltage	3x400 V
Frequency	50 Hz
Intensity	201 A

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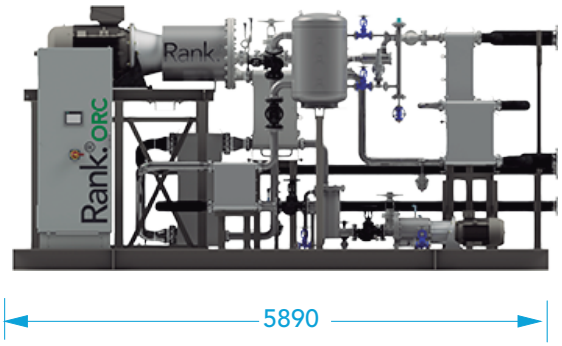
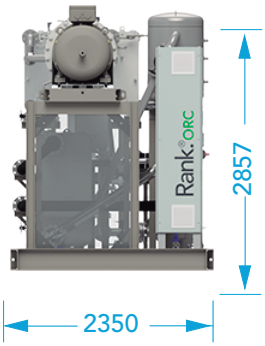
Dimensions

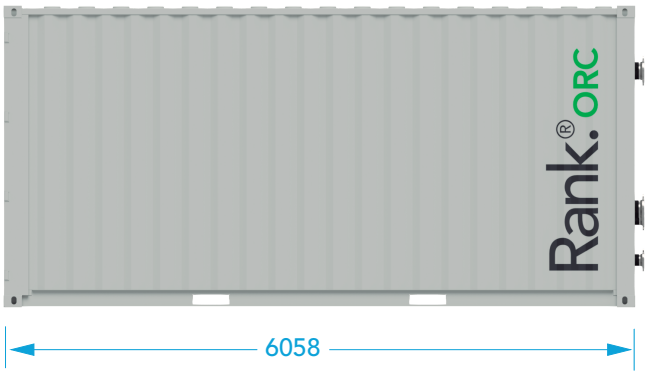
Basic Option

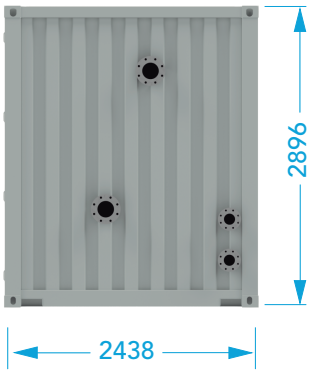




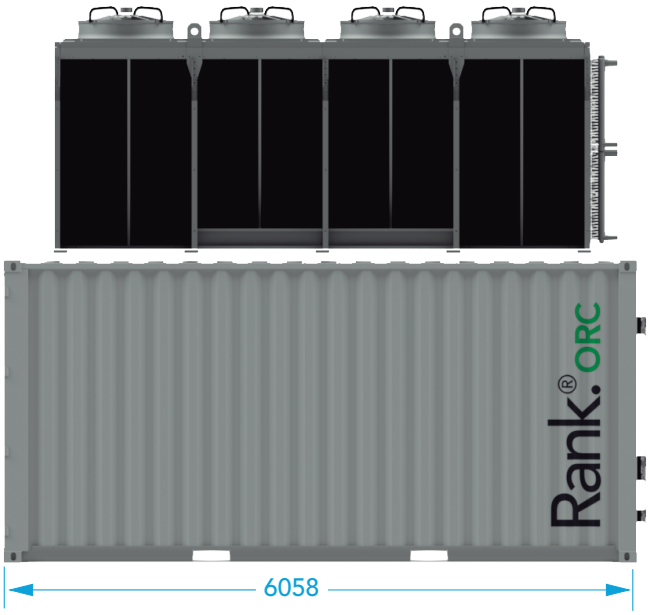
Wrap-around Option

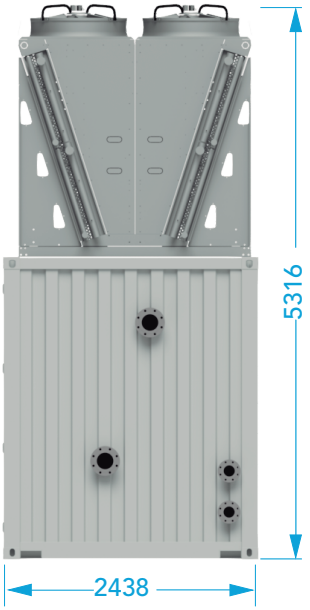
Container Option





Container Option + aero condenser





Compliance with regulations and standards

- Low voltage Directive
- Machinery Directive
- Electromagnetic Compatibility Directive
- Pressurized Equipment Directive
- EN/ISO 3744:2010
- UNE EN 10216
- UNE EN 764-7
- UNE EN 13136:2014+A1
- 2006/42/CE
- 2014/68/UE
- ASME B31.1 / ASME B31.3 – Process Piping Code
- ASME Boiler and Pressure Vessel Code Section VIII
- UL 508A- Control Panel Wiring
- 2014/35/UE
- 2014/30/UE

Rank.® ORC 1MWt

Example point of operation

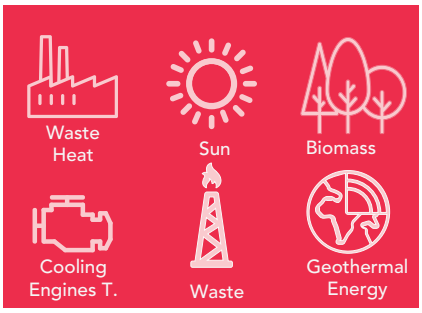
W1.2

Selected operating point

Water-Water Generator Power

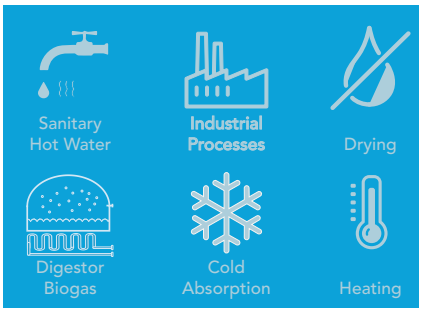
Heat source: Tin (ºC)					
170	126	123	119	110	96
150	119	114	108	88	75
130	117	97	80	75	56
110	108	86	71	-	-
90	83	66	-	-	-
Tin (ºC)	10	25	40	55	70
Tout (ºC)	20	35	50	65	80

Useful heat / Disipation



Heat source

Heat transfer fluid	Agua
Inlet temperature	170 °C
Outlet temperature	150 °C
Volumetric flow rate	46 m³/h
Thermal power	1.000 kWt
Pressure drop	100 kPa



Useful heat Disipation

Heat transfer fluid	Agua
Inlet temperature	25 °C
Outlet temperature	35 °C
Volumetric flow rate	64 m³/h
Thermal power	741 kWt
Pressure drop	100 kPa

Electricity

Gross power	123 kWe
Net power	112 kWe
Voltage	3x400 V
Frequency	50 Hz
Intensity	196 A

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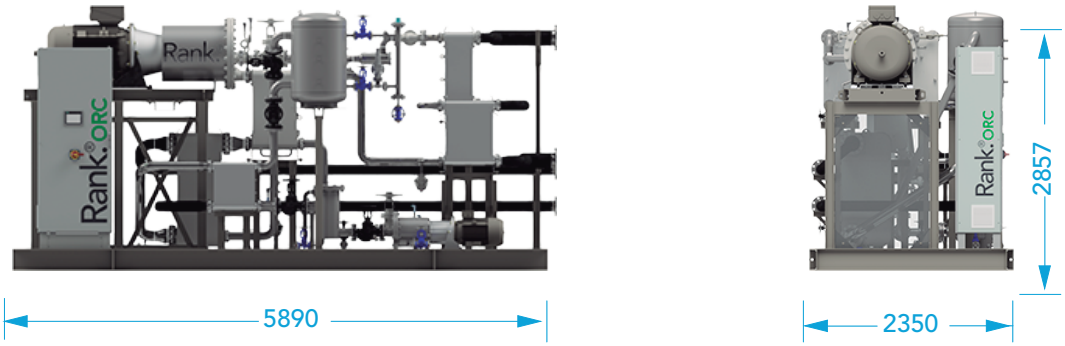
Dimensions

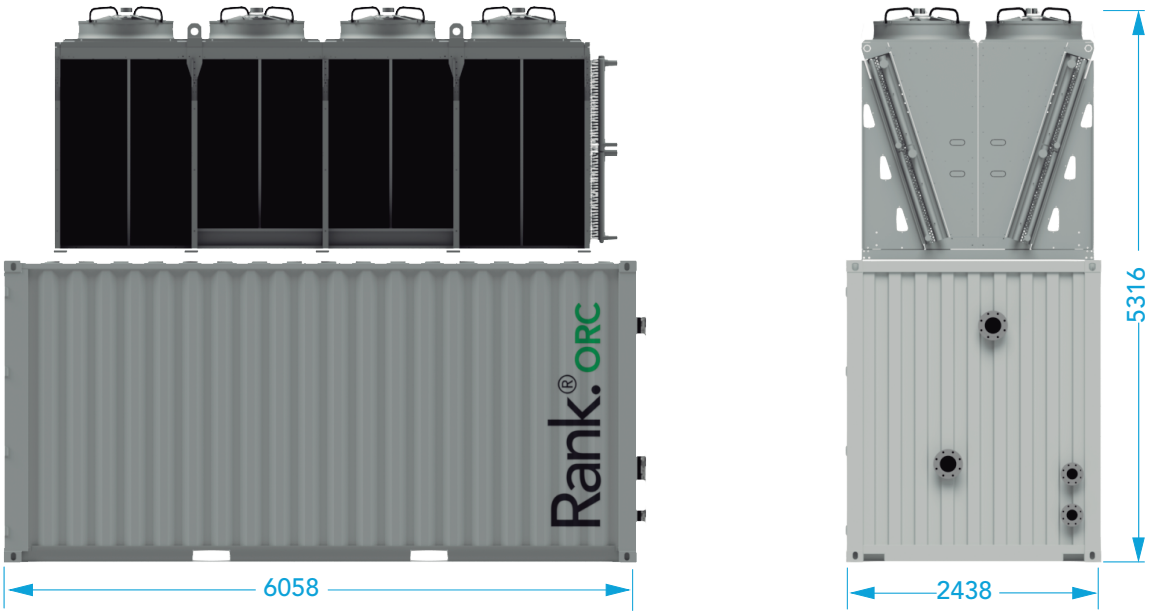
Basic Option



Wrap-around Option

Container Option

Container Option + aero condenser



Compliance with regulations and standards

- Low voltage Directive
- Machinery Directive
- Electromagnetic Compatibility Directive
- Pressurized Equipment Directive
- EN/ISO 3744:2010
- UNE EN 10216
- UNE EN 764-7
- UNE EN 13136:2014+A1
- 2006/42/CE
- 2014/68/UE
- ASME B31.1 / ASME B31.3 – Process Piping Code
- ASME Boiler and Pressure Vessel Code Section VIII
- UL 508A- Control Panel Wiring
- 2014/35/UE
- 2014/30/UE

Rank® ORC 1MWt

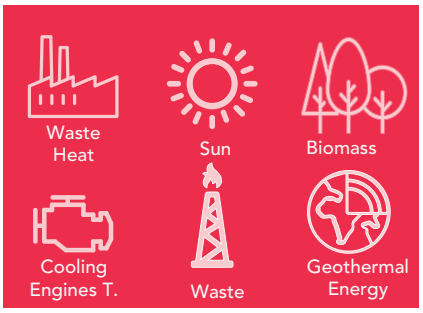
Example point of operation

W1.3

Selected operating point

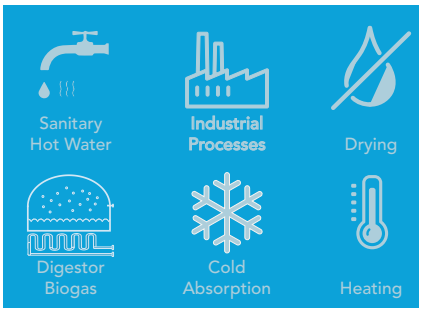
Water-Water Generator Power

Heat source: Tin (ºC)	Useful heat / Disipation: Tout (ºC)				
	10	25	40	55	70
170	126	123	**119**	110	96
150	119	114	108	88	75
130	117	97	80	75	56
110	108	86	71	-	-
90	83	66	-	-	-
Tin (ºC)	10	25	40	55	70
Tout (ºC)	20	35	50	65	80



Heat source

Heat transfer fluid	Agua
Inlet temperature	170 °C
Outlet temperature	150 °C
Volumetric flow rate	46 m³/h
Thermal power	1.000 kWt
Pressure drop	100 kPa



Useful heat Disipation

Heat transfer fluid	Agua
Inlet temperature	40 °C
Outlet temperature	50 °C
Volumetric flow rate	66 m³/h
Thermal power	763 kWt
Pressure drop	100 kPa

Electricity

Gross power	119 kWe
Net power	106 kWe
Voltage	3x400 V
Frequency	50 Hz
Intensity	191 A

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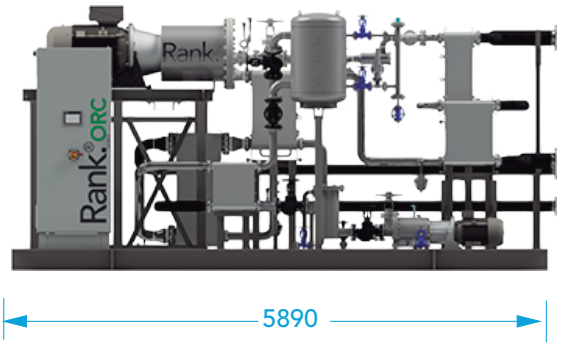
Dimensions

Basic Option



5890

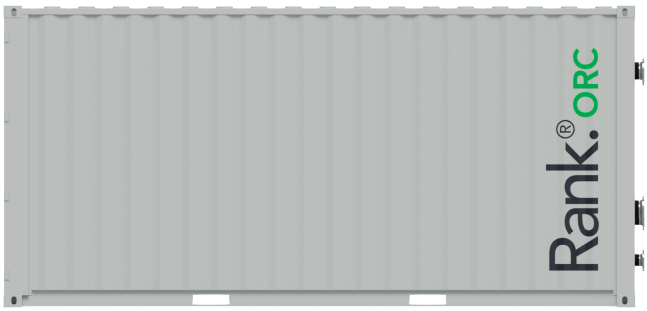
2350

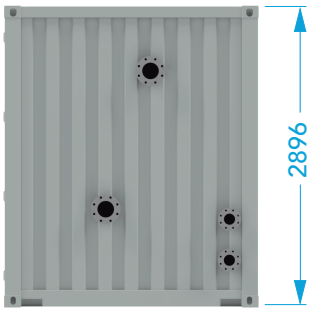
Wrap-around Option

5940

2295

Container Option

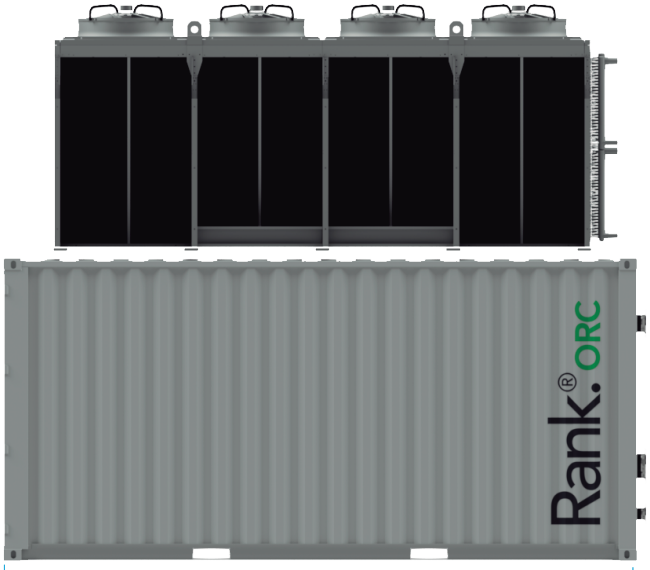


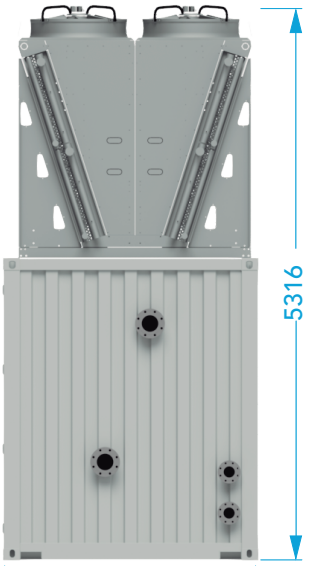


6058

2438

Container Option + aero condenser





6058

2438

Compliance with regulations and standards

- Low voltage Directive
- Machinery Directive
- Electromagnetic Compatibility Directive
- Pressurized Equipment Directive
- EN/ISO 3744:2010
- UNE EN 10216
- UNE EN 764-7
- UNE EN 13136:2014+A1
- 2006/42/CE
- 2014/68/UE
- ASME B31.1 / ASME B31.3 – Process Piping Code
- ASME Boiler and Pressure Vessel Code Section VIII
- UL 508A- Control Panel Wiring
- 2014/35/UE
- 2014/30/UE

Rank® ORC 1MWt

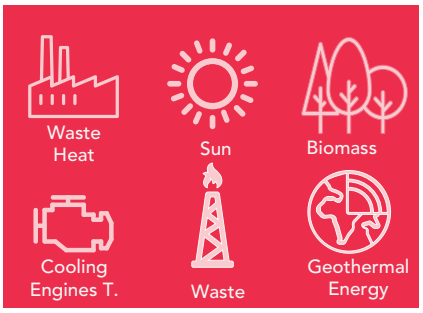
Example point of operation

W1.4

Selected operating point

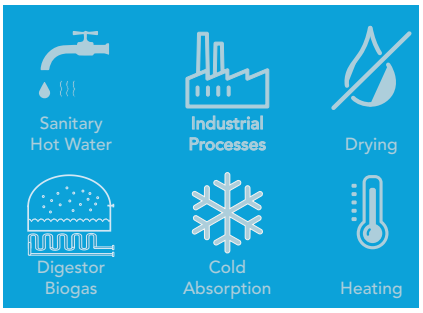
Heat source \ Tin (ºC)	Water-Water Generator Power				
170	126	123	119	110	96
150	119	114	108	88	75
130	117	97	80	75	56
110	108	86	71	-	-
90	83	66	-	-	-
Tin (ºC)	10	25	40	55	70
Tout (ºC)	20	35	50	65	80

Useful heat / Disipation



Heat source

Heat transfer fluid	Agua
Inlet temperature	170 °C
Outlet temperature	150 °C
Volumetric flow rate	46 m³/h
Thermal power	1.000 kWt
Pressure drop	100 kPa



Useful heat Disipation

Heat transfer fluid	Agua
Inlet temperature	55 °C
Outlet temperature	65 °C
Volumetric flow rate	69 m³/h
Thermal power	787 kWt
Pressure drop	100 kPa

Electricity

Gross power	110 kWe
Net power	96 kWe
Voltage	3x400 V
Frequency	50 Hz
Intensity	177 A

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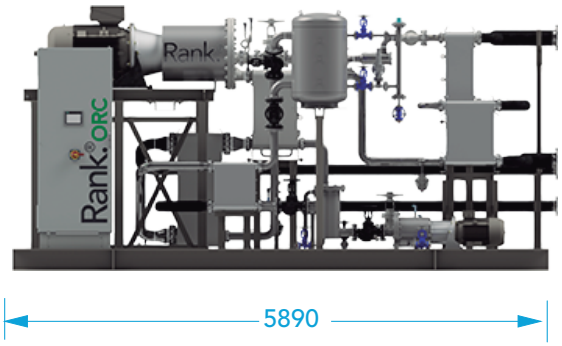
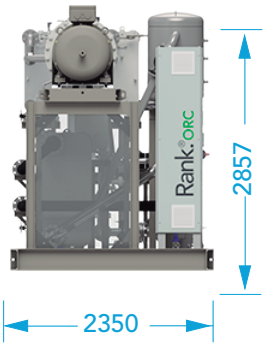
Dimensions

Basic Option





5890

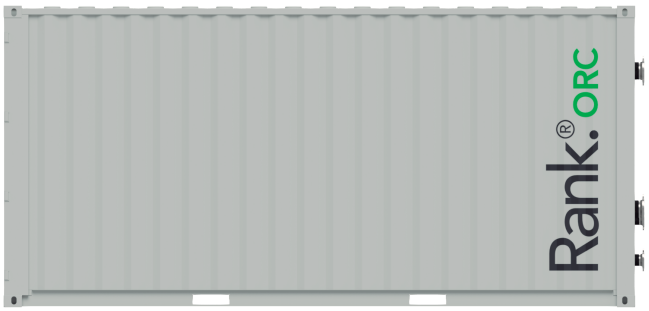
2350

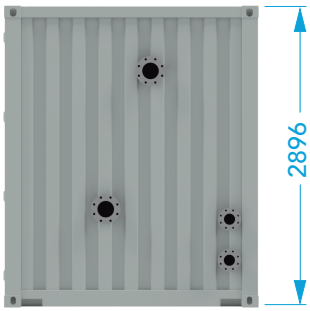
Wrap-around Option

5940

2295

Container Option

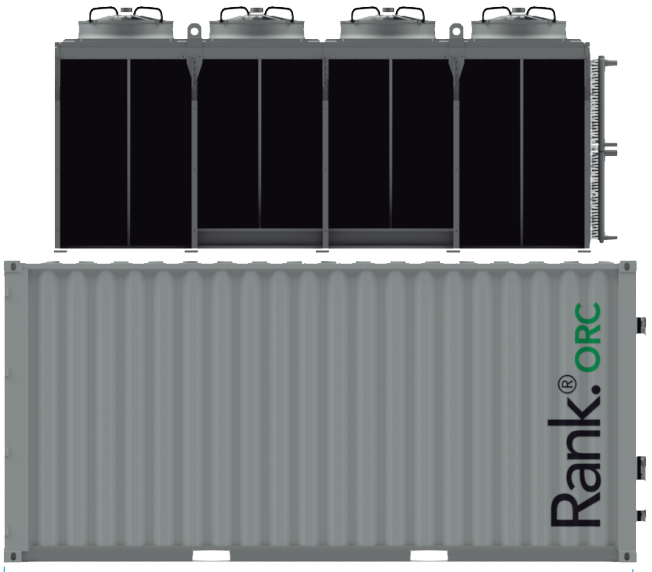


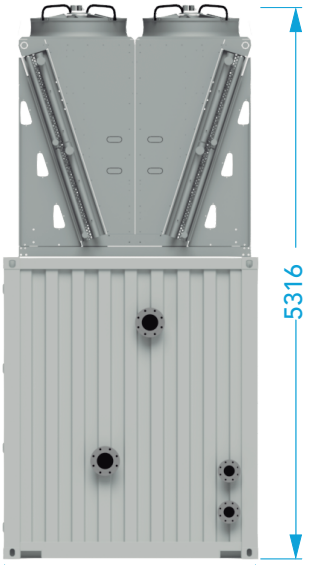


6058

2438

Container Option + aero condenser





6058

2438

Compliance with regulations and standards

- Low voltage Directive
- Machinery Directive
- Electromagnetic Compatibility Directive
- Pressurized Equipment Directive
- EN/ISO 3744:2010
- UNE EN 10216
- UNE EN 764-7
- UNE EN 13136:2014+A1
- 2006/42/CE
- 2014/68/UE
- ASME B31.1 / ASME B31.3 – Process Piping Code
- ASME Boiler and Pressure Vessel Code Section VIII
- UL 508A- Control Panel Wiring
- 2014/35/UE
- 2014/30/UE

Rank.® ORC 1MWt

Example point of operation

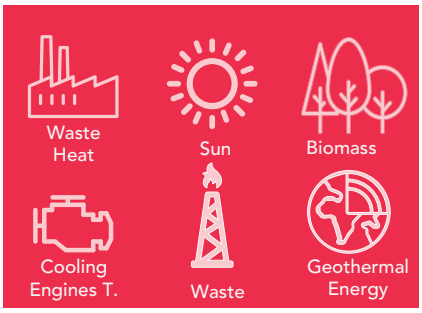
W1.5

Selected operating point

Heat source

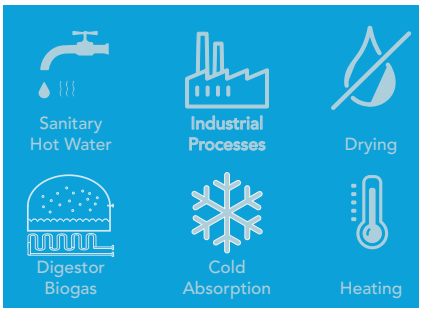
Tin (ºC)					Water-Water Generator Power
170	126	123	119	110	96
150	119	114	108	88	75
130	117	97	80	75	56
110	108	86	71	-	-
90	83	66	-	-	-
Tin (ºC)	10	25	40	55	70
Tout (ºC)	20	35	50	65	80

Useful heat / Disipation



Heat source

Heat transfer fluid	Agua
Inlet temperature	170 °C
Outlet temperature	150 °C
Volumetric flow rate	46 m³/h
Thermal power	1.000 kWt
Pressure drop	100 kPa



Useful heat Disipation

Heat transfer fluid	Agua
Inlet temperature	70 °C
Outlet temperature	80 °C
Volumetric flow rate	71 m³/h
Thermal power	811 kWt
Pressure drop	100 kPa

Electricity

Gross power	96 kWe
Net power	80 kWe
Voltage	3x400 V
Frequency	50 Hz
Intensity	153 A

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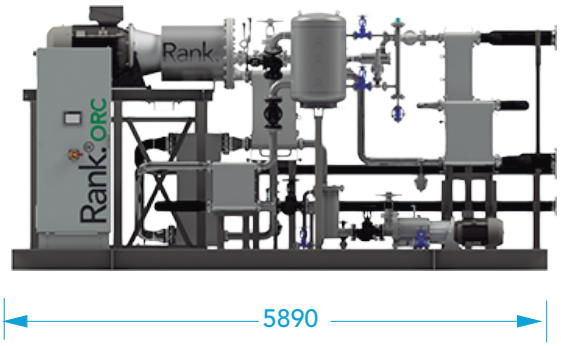
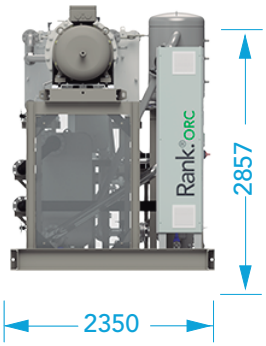
Dimensions

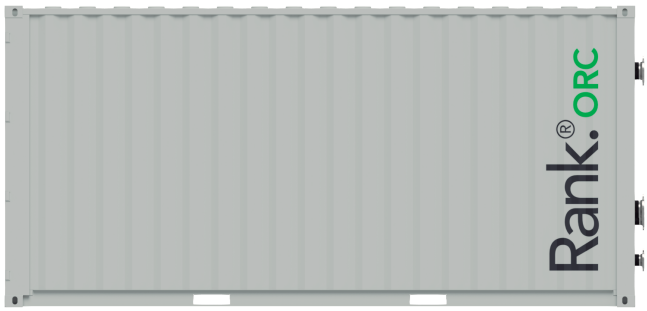
Basic Option

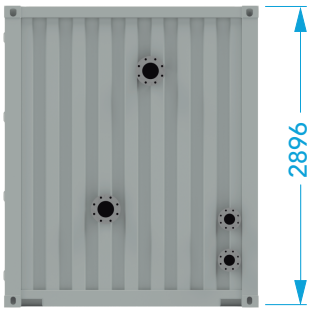




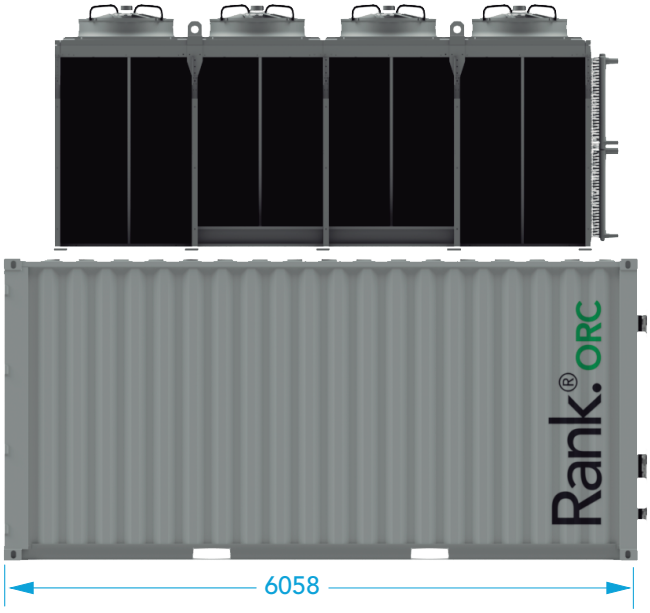
Wrap-around Option

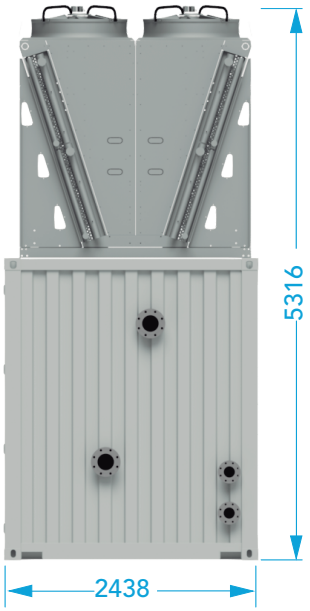
Container Option





Container Option + aero condenser





Compliance with regulations and standards

- Low voltage Directive
- Machinery Directive
- Electromagnetic Compatibility Directive
- Pressurized Equipment Directive
- EN/ISO 3744:2010
- UNE EN 10216
- UNE EN 764-7
- UNE EN 13136:2014+A1
- 2006/42/CE
- 2014/68/UE
- ASME B31.1 / ASME B31.3 – Process Piping Code
- ASME Boiler and Pressure Vessel Code Section VIII
- UL 508A- Control Panel Wiring
- 2014/35/UE
- 2014/30/UE

Rank.® ORC 1MWt

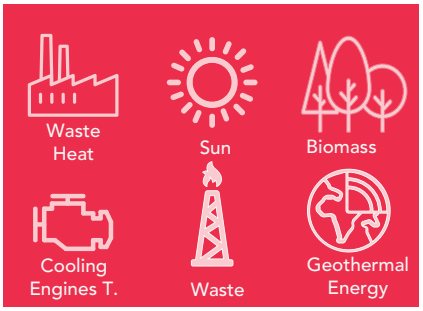
Example point of operation

W2.1

Selected operating point

Water-Water Generator Power

Heat source \ Useful heat / Dissipation	Tin (ºC)					
Tin (ºC)	170	126	123	119	110	96
	150	119	114	108	88	75
	130	117	97	80	75	56
	110	108	86	71	-	-
	90	83	66	-	-	-
Tout (ºC)	10	25	40	55	70	
	20	35	50	65	80	



Heat source

Heat transfer fluid	Agua
Inlet temperature	150 °C
Outlet temperature	130 °C
Volumetric flow rate	45 m³/h
Thermal power	1.000 kWt
Pressure drop	100 kPa

Useful heat Disipation

Heat transfer fluid	Agua
Inlet temperature	10 °C
Outlet temperature	20 °C
Volumetric flow rate	64 m³/h
Thermal power	738 kWt
Pressure drop	100 kPa

Electricity

Gross power	119 kWe
Net power	106 kWe
Voltage	3x400 V
Frequency	50 Hz
Intensity	190 A

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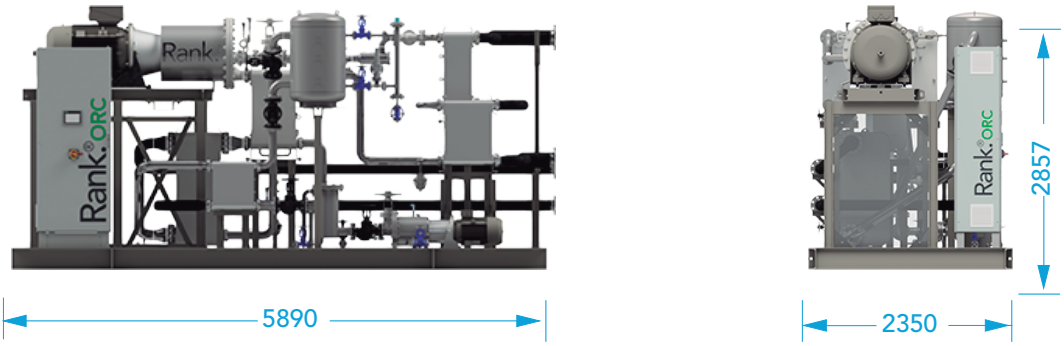
Dimensions

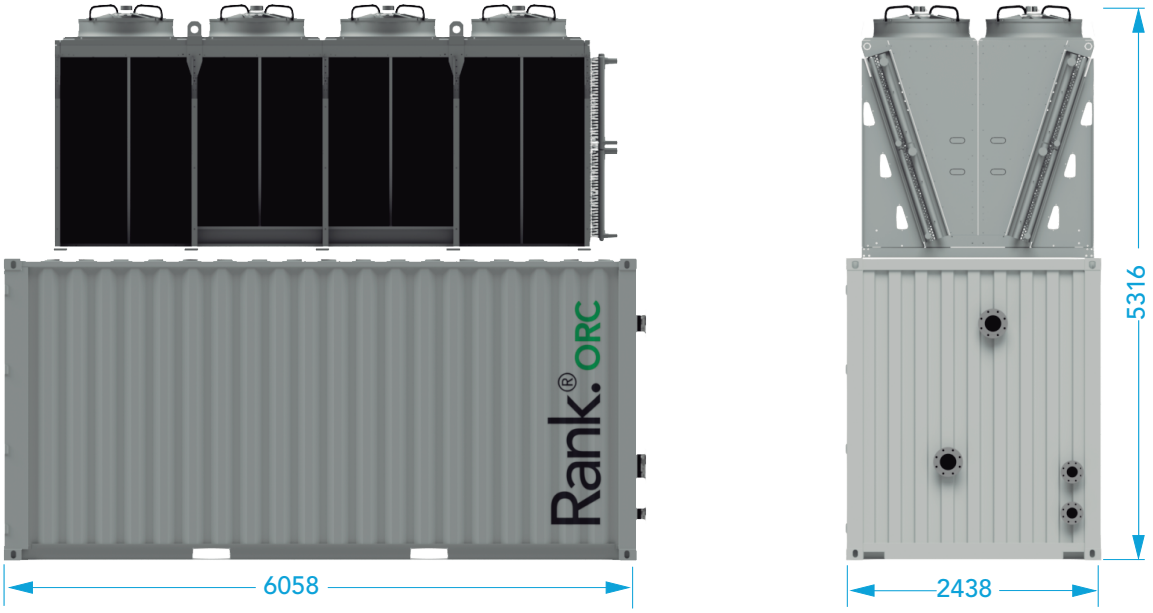
Basic Option



Wrap-around Option

Container Option

Container Option + aero condenser



Compliance with regulations and standards

- Low voltage Directive
- Machinery Directive
- Electromagnetic Compatibility Directive
- Pressurized Equipment Directive
- EN/ISO 3744:2010
- UNE EN 10216
- UNE EN 764-7
- UNE EN 13136:2014+A1
- 2006/42/CE
- 2014/68/UE
- ASME B31.1 / ASME B31.3 – Process Piping Code
- ASME Boiler and Pressure Vessel Code Section VIII
- UL 508A- Control Panel Wiring
- 2014/35/UE
- 2014/30/UE

Rank® ORC 1MWt

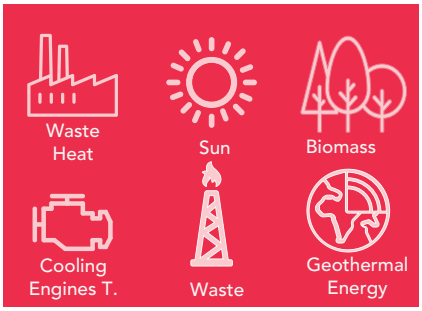
Example point of operation

W2.2

Selected operating point

Water-Water Generator Power

Heat source \ Tin (ºC)	Useful heat / Disipation				
170	126	123	119	110	96
150	119	114	108	88	75
130	117	97	80	75	56
110	108	86	71	-	-
90	83	66	-	-	-
Tin (ºC)	10	25	40	55	70
Tout (ºC)	20	35	50	65	80



Heat source

Heat transfer fluid	Agua
Inlet temperature	150 °C
Outlet temperature	130 °C
Volumetric flow rate	45 m³/h
Thermal power	1.000 kWt
Pressure drop	100 kPa

Useful heat Disipation

Heat transfer fluid	Agua
Inlet temperature	25 °C
Outlet temperature	35 °C
Volumetric flow rate	66 m³/h
Thermal power	758 kWt
Pressure drop	100 kPa

Electricity

Gross power	114 kWe
Net power	102 kWe
Voltage	3x400 V
Frequency	50 Hz
Intensity	183 A

version 29/07/2025

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Dimensions

Basic Option

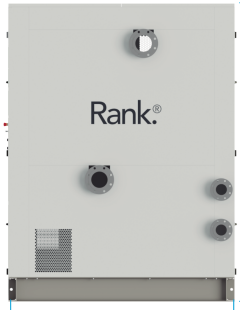
5890

2857

2350

Wrap-around Option

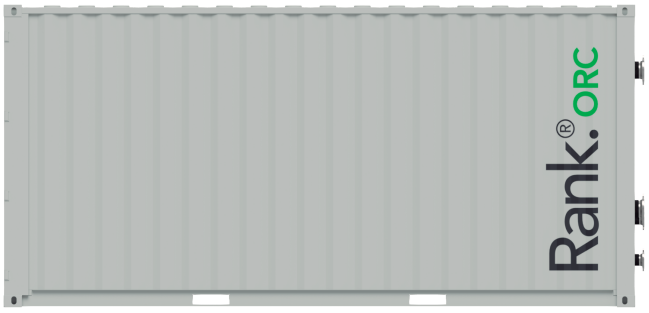
5940



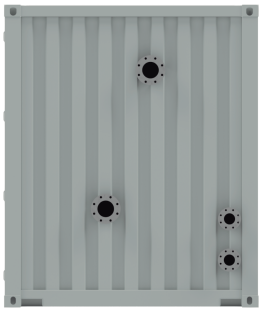
2900

2295

Container Option



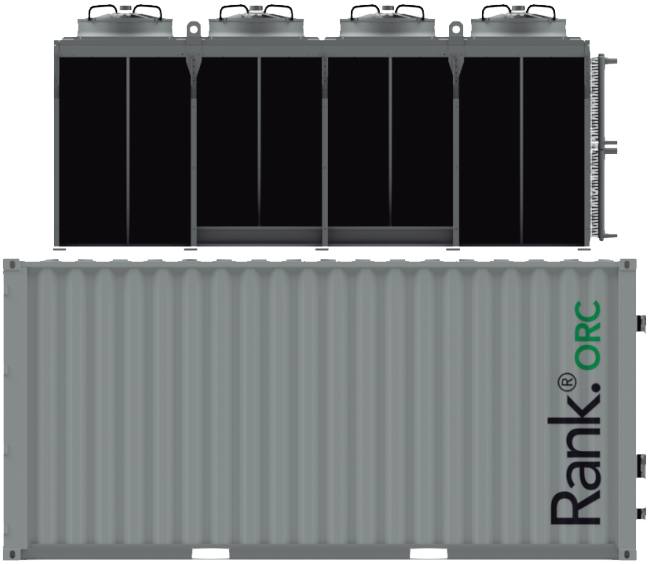
6058



2896

2438

Container Option + aero condenser



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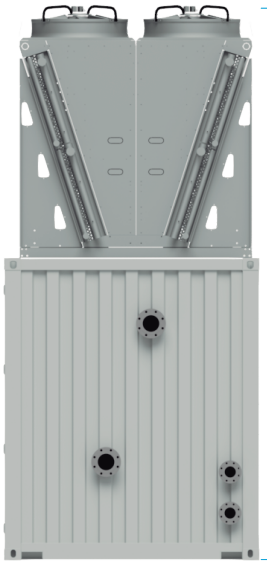


5316

2438

Compliance with regulations and standards

- Low voltage Directive
- Machinery Directive
- Electromagnetic Compatibility Directive
- Pressurized Equipment Directive
- EN/ISO 3744:2010
- UNE EN 10216
- UNE EN 764-7
- UNE EN 13136:2014+A1
- 2006/42/CE
- 2014/68/UE
- ASME B31.1 / ASME B31.3 – Process Piping Code
- ASME Boiler and Pressure Vessel Code Section VIII
- UL 508A- Control Panel Wiring
- 2014/35/UE
- 2014/30/UE

Rank.® ORC 1MWt

Example point of operation

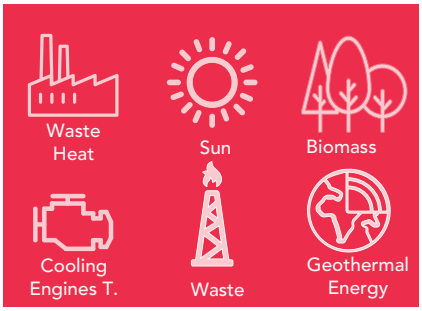
W2.3

Selected operating point

Water-Water Generator Power

Heat source \ Tin (ºC)					
170	126	123	119	110	96
150	119	114	108	88	75
130	117	97	80	75	56
110	108	86	71	-	-
90	83	66	-	-	-
Tin (ºC)	10	25	40	55	70
Tout (ºC)	20	35	50	65	80

Useful heat / Disipation



Heat source

Heat transfer fluid	Agua
Inlet temperature	150 °C
Outlet temperature	130 °C
Volumetric flow rate	45 m³/h
Thermal power	1.000 kWt
Pressure drop	100 kPa

Useful heat Disipation

Heat transfer fluid	Agua
Inlet temperature	40 °C
Outlet temperature	50 °C
Volumetric flow rate	68 m³/h
Thermal power	781 kWt
Pressure drop	100 kPa

Electricity

Gross power	108 kWe
Net power	95 kWe
Voltage	3x400 V
Frequency	50 Hz
Intensity	173 A

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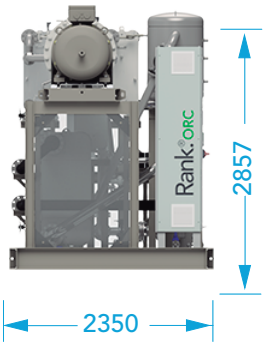
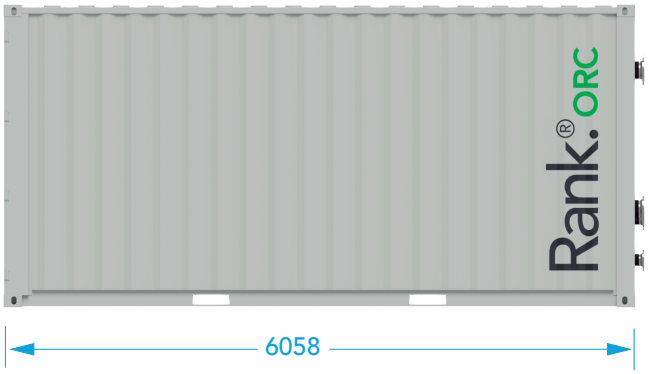
Dimensions

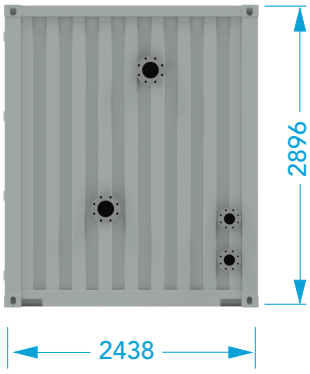
Basic Option



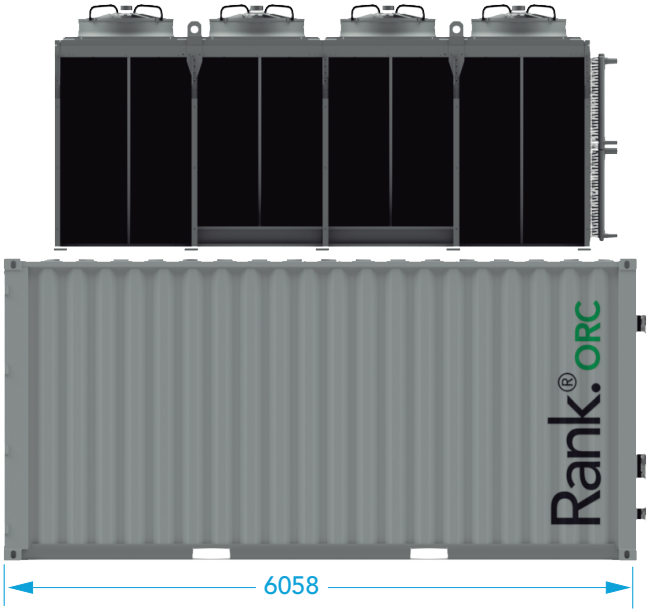
Wrap-around Option

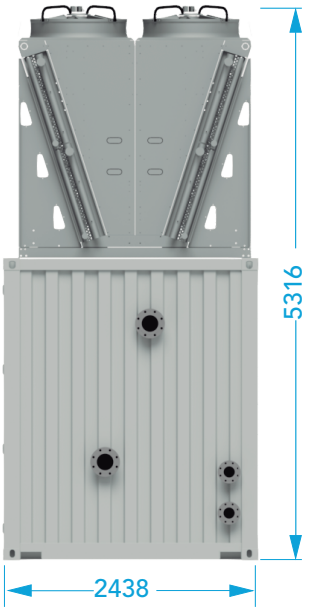
Container Option





Container Option + aero condenser





Compliance with regulations and standards

- Low voltage Directive
- Machinery Directive
- Electromagnetic Compatibility Directive
- Pressurized Equipment Directive
- EN/ISO 3744:2010
- UNE EN 10216
- UNE EN 764-7
- UNE EN 13136:2014+A1
- 2006/42/CE
- 2014/68/UE
- ASME B31.1 / ASME B31.3 – Process Piping Code
- ASME Boiler and Pressure Vessel Code Section VIII
- UL 508A- Control Panel Wiring
- 2014/35/UE
- 2014/30/UE

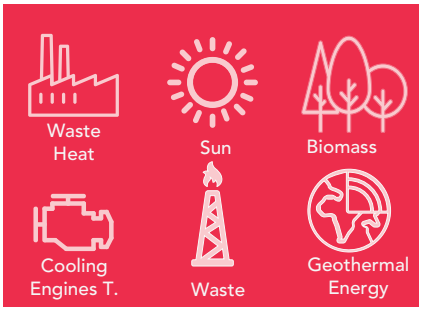
Rank® ORC 1MWt

Example point of operation

Selected operating point

Heat source \ Tin (ºC)	Water-Water Generator Power				
170	126	123	119	110	96
150	119	114	108	88	75
130	117	97	80	75	56
110	108	86	71	-	-
90	83	66	-	-	-
Tin (ºC)	10	25	40	55	70
Tout (ºC)	20	35	50	65	80

Useful heat / Disipation



Heat source

Heat transfer fluid	Agua
Inlet temperature	150 °C
Outlet temperature	130 °C
Volumetric flow rate	45 m³/h
Thermal power	1.000 kWt
Pressure drop	100 kPa

Useful heat Disipation

Heat transfer fluid	Agua
Inlet temperature	55 °C
Outlet temperature	65 °C
Volumetric flow rate	72 m³/h
Thermal power	821 kWt
Pressure drop	100 kPa

Electricity

Gross power	88 kWe
Net power	77 kWe
Voltage	3x400 V
Frequency	50 Hz
Intensity	140 A

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Dimensions

Basic Option

5890

2857

2350

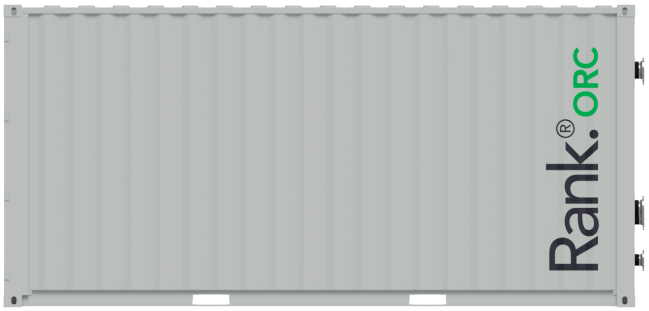
Wrap-around Option

5940

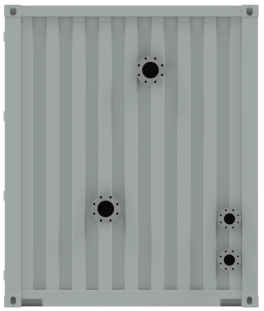
2900

2295

Container Option



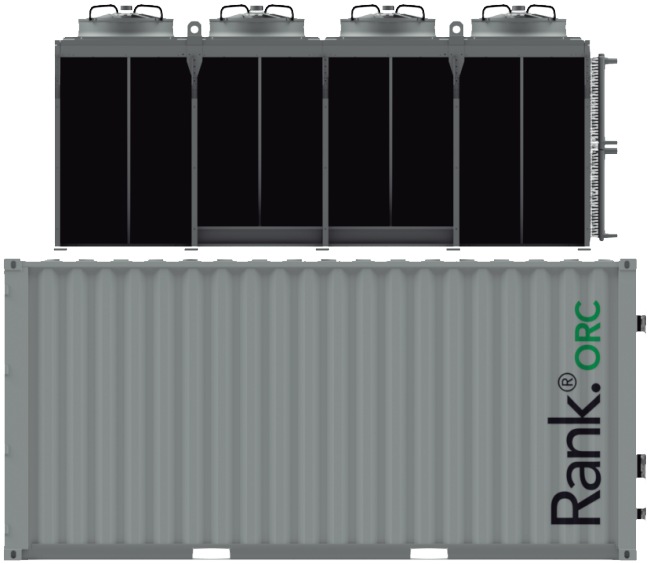
6058



2896

2438

Container Option + aero condenser



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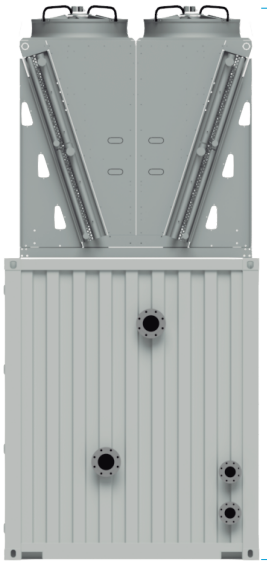

5316

2438

Compliance with regulations and standards

- Low voltage Directive
- Machinery Directive
- Electromagnetic Compatibility Directive
- Pressurized Equipment Directive
- EN/ISO 3744:2010
- UNE EN 10216
- UNE EN 764-7
- UNE EN 13136:2014+A1
- 2006/42/CE
- 2014/68/UE
- ASME B31.1 / ASME B31.3 – Process Piping Code
- ASME Boiler and Pressure Vessel Code Section VIII
- UL 508A- Control Panel Wiring
- 2014/35/UE
- 2014/30/UE

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Example point of operation

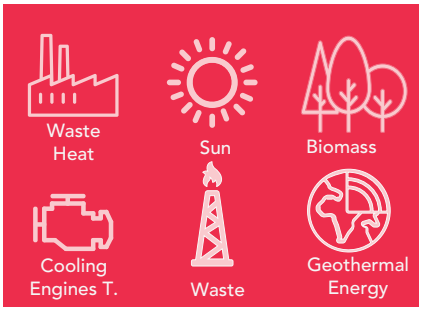
W2.5

Selected operating point

Water-Water Generator Power

Heat source						
Tin (ºC)						
170	126	123	119	110	96
150	119	114	108	88	75
130	117	97	80	75	56
110	108	86	71	-	-
90	83	66	-	-	-
Tin (ºC)	10	25	40	55	70
Tout (ºC)	20	35	50	65	80

Useful heat / Disipation



Heat source

Heat transfer fluid	Agua
Inlet temperature	150 °C
Outlet temperature	130 °C
Volumetric flow rate	45 m³/h
Thermal power	1.000 kWt
Pressure drop	100 kPa

Useful heat Disipation

Heat transfer fluid	Agua
Inlet temperature	70 °C
Outlet temperature	80 °C
Volumetric flow rate	75 m³/h
Thermal power	850 kWt
Pressure drop	100 kPa

Electricity

Gross power	75 kWe
Net power	63 kWe
Voltage	3x400 V
Frequency	50 Hz
Intensity	120 A

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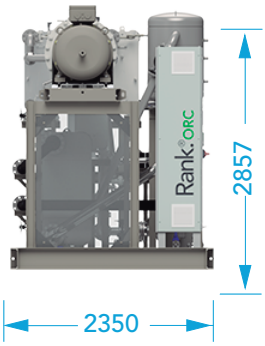
Dimensions

Basic Option

5890



2857

2350

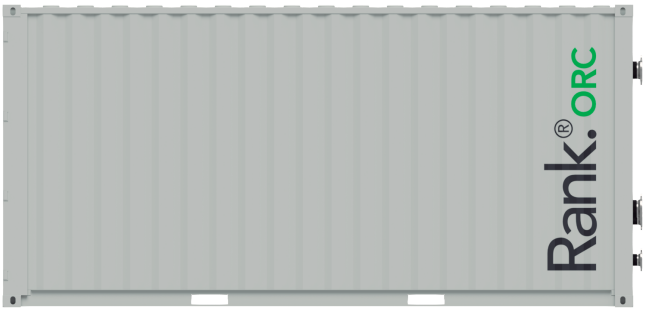
Wrap-around Option

5940

2900

2295

Container Option



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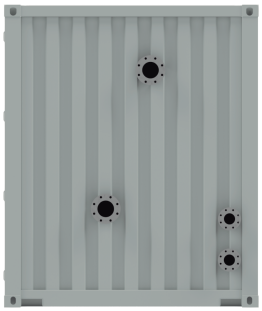
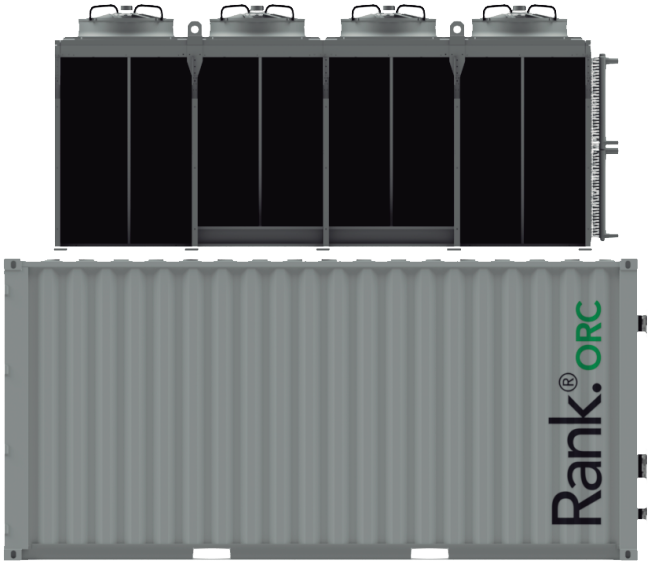


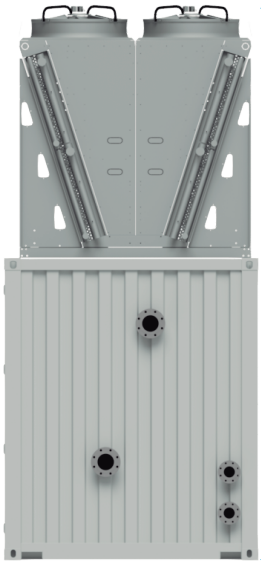
2896

2438

Container Option + aero condenser



6058



5316

2438

Compliance with regulations and standards

- Low voltage Directive
- Machinery Directive
- Electromagnetic Compatibility Directive
- Pressurized Equipment Directive
- EN/ISO 3744:2010
- UNE EN 10216
- UNE EN 764-7
- UNE EN 13136:2014+A1
- 2006/42/CE
- 2014/68/UE
- ASME B31.1 / ASME B31.3 – Process Piping Code
- ASME Boiler and Pressure Vessel Code Section VIII
- UL 508A- Control Panel Wiring
- 2014/35/UE
- 2014/30/UE

Rank.® ORC 1MWt

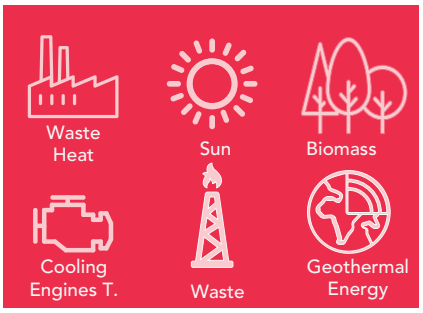
Example point of operation

W3.1

Selected operating point

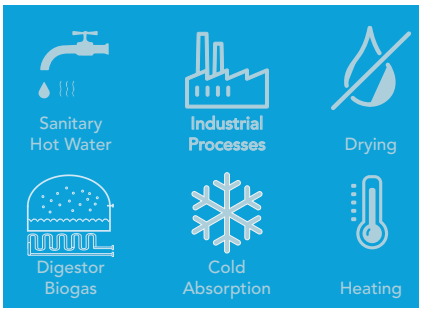
Water-Water Generator Power

Heat source \ Useful heat / Dissipation	Tin (ºC)					
Tin (ºC)	170	126	123	119	110	96
	150	119	114	108	88	75
	130	117	97	80	75	56
	110	108	86	71	-	-
	90	83	66	-	-	-
Tout (ºC)	10	25	40	55	70	
	20	35	50	65	80	



Heat source

Heat transfer fluid	Agua
Inlet temperature	130 °C
Outlet temperature	110 °C
Volumetric flow rate	45 m³/h
Thermal power	1.000 kWt
Pressure drop	100 kPa



Useful heat Disipation

Heat transfer fluid	Agua
Inlet temperature	10 °C
Outlet temperature	20 °C
Volumetric flow rate	67 m³/h
Thermal power	781 kWt
Pressure drop	100 kPa

Electricity

Gross power	117 kWe
Net power	104 kWe
Voltage	3x400 V
Frequency	50 Hz
Intensity	188 A

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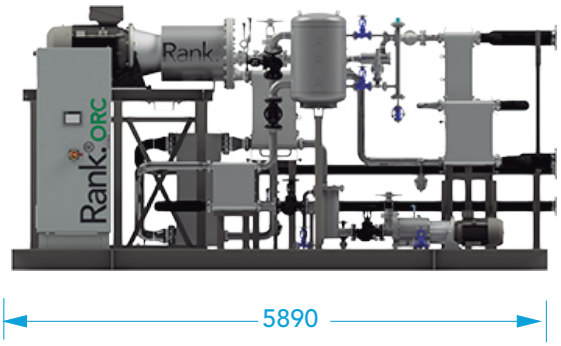
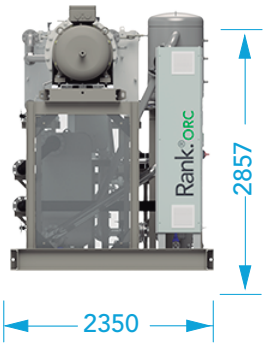
Dimensions

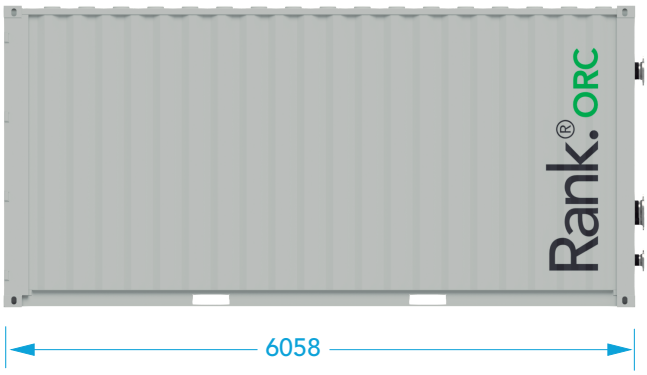
Basic Option

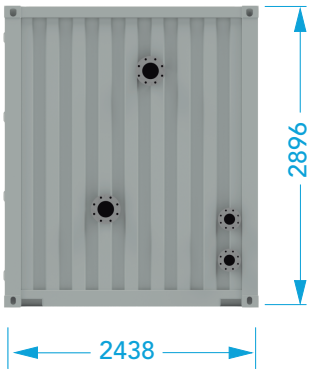




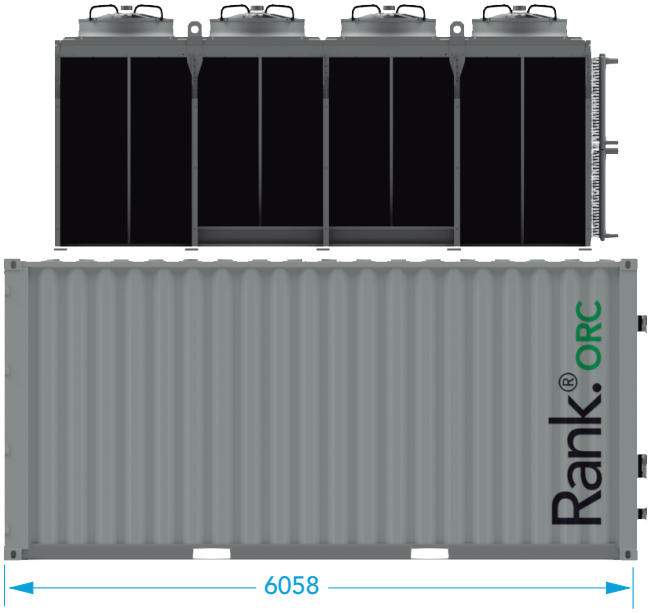
Wrap-around Option

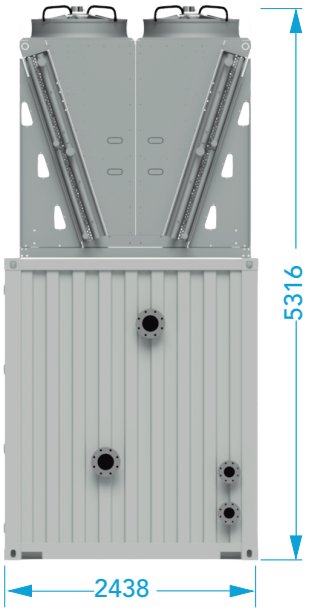
Container Option





Container Option + aero condenser





Compliance with regulations and standards

- Low voltage Directive
- Machinery Directive
- Electromagnetic Compatibility Directive
- Pressurized Equipment Directive
- EN/ISO 3744:2010
- UNE EN 10216
- UNE EN 764-7
- UNE EN 13136:2014+A1
- 2006/42/CE
- 2014/68/UE
- ASME B31.1 / ASME B31.3 – Process Piping Code
- ASME Boiler and Pressure Vessel Code Section VIII
- UL 508A- Control Panel Wiring
- 2014/35/UE
- 2014/30/UE

Rank.® ORC 1MWt

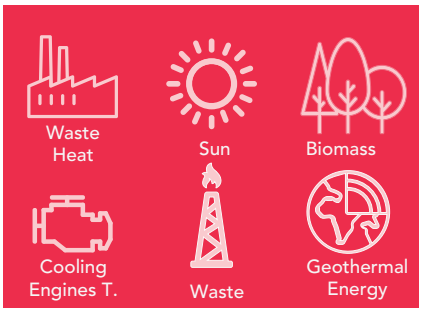
Example point of operation

W3.2

Selected operating point

Heat source \ Tin (ºC)	Water-Water Generator Power				
170	126	123	119	110	96
150	119	114	108	88	75
130	117	**97**	80	75	56
110	108	86	71	-	-
90	83	66	-	-	-
Tin (ºC)	10	**25**	40	55	70
Tout (ºC)	20	**35**	50	65	80

Useful heat / Disipation



Heat source

Heat transfer fluid	Agua
Inlet temperature	130 °C
Outlet temperature	110 °C
Volumetric flow rate	45 m³/h
Thermal power	1.000 kWt
Pressure drop	100 kPa

Useful heat Disipation

Heat transfer fluid	Agua
Inlet temperature	25 °C
Outlet temperature	35 °C
Volumetric flow rate	71 m³/h
Thermal power	816 kWt
Pressure drop	100 kPa

Electricity

Gross power	97 kWe
Net power	83 kWe
Voltage	3x400 V
Frequency	50 Hz
Intensity	156 A

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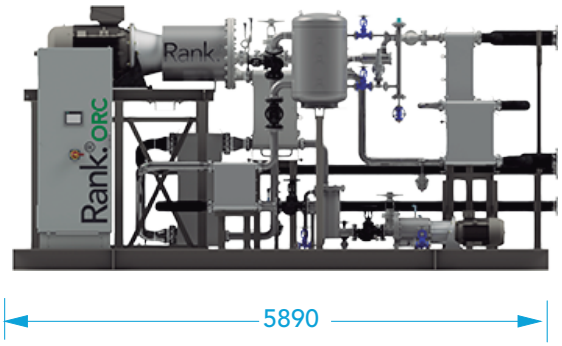
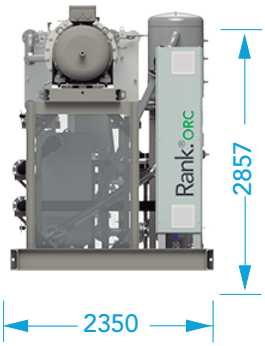
Dimensions

Basic Option





5890

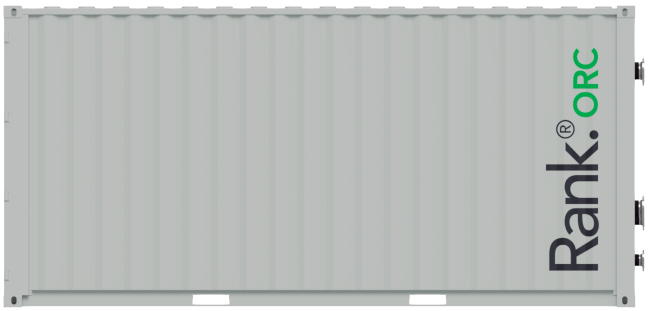
2350

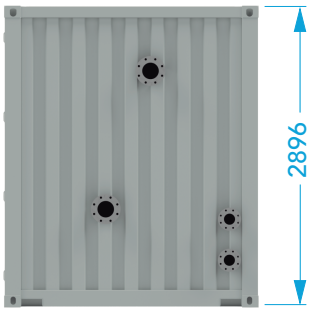
Wrap-around Option

5940

2295

Container Option

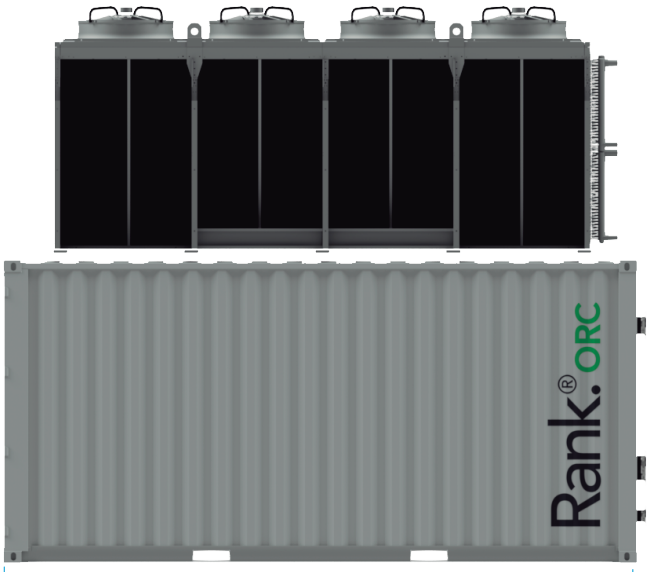


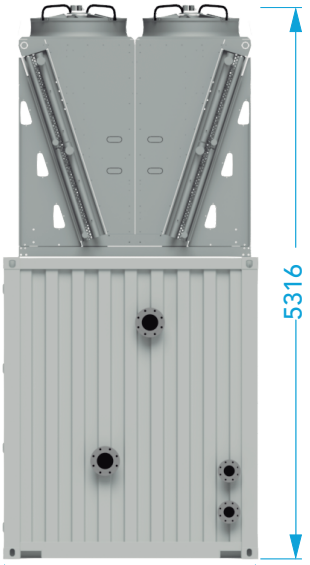


6058

2438

Container Option + aero condenser





6058

2438

Compliance with regulations and standards

- Low voltage Directive
- Machinery Directive
- Electromagnetic Compatibility Directive
- Pressurized Equipment Directive
- EN/ISO 3744:2010
- UNE EN 10216
- UNE EN 764-7
- UNE EN 13136:2014+A1
- 2006/42/CE
- 2014/68/UE
- ASME B31.1 / ASME B31.3 – Process Piping Code
- ASME Boiler and Pressure Vessel Code Section VIII
- UL 508A- Control Panel Wiring
- 2014/35/UE
- 2014/30/UE

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Example point of operation

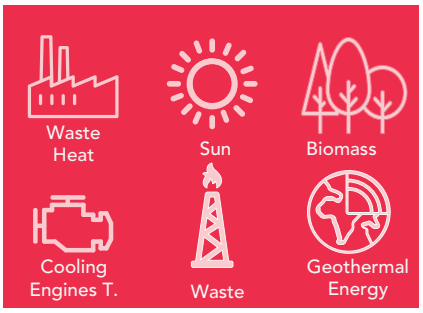
W3.3

Selected operating point

Water-Water Generator Power

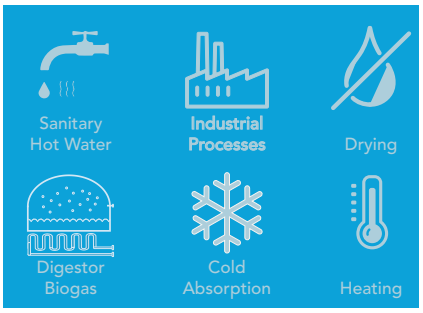
Heat source \ Tin (ºC)					
170	126	123	119	110	96
150	119	114	108	88	75
130	117	97	80	75	56
110	108	86	71	-	-
90	83	66	-	-	-
Tin (ºC)	10	25	40	55	70
Tout (ºC)	20	35	50	65	80

Useful heat / Disipation



Heat source

Heat transfer fluid	Agua
Inlet temperature	130 °C
Outlet temperature	110 °C
Volumetric flow rate	45 m³/h
Thermal power	1.000 kWt
Pressure drop	100 kPa



Useful heat Disipation

Heat transfer fluid	Agua
Inlet temperature	40 °C
Outlet temperature	50 °C
Volumetric flow rate	74 m³/h
Thermal power	854 kWt
Pressure drop	100 kPa

Electricity

Gross power	80 kWe
Net power	66 kWe
Voltage	3x400 V
Frequency	50 Hz
Intensity	129 A

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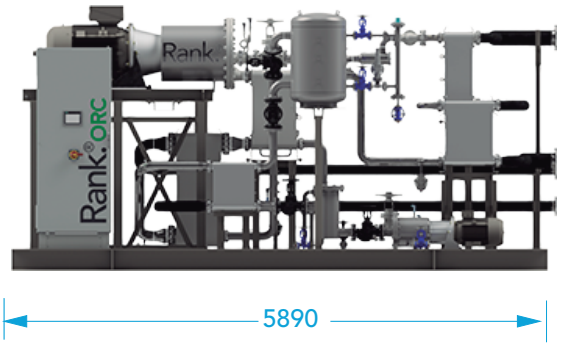
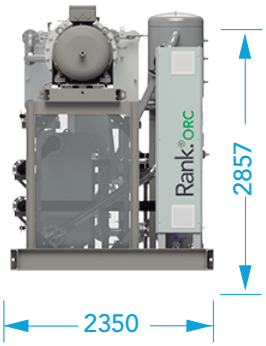
Dimensions

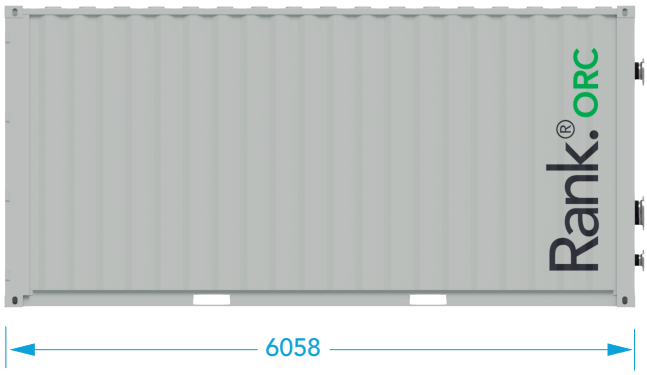
Basic Option

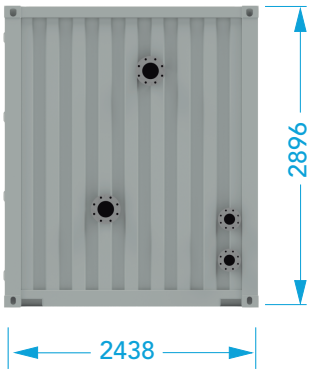




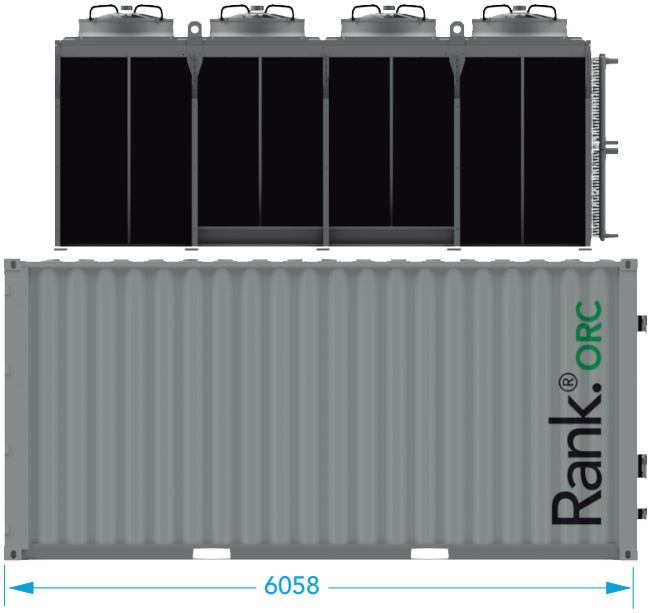
Wrap-around Option

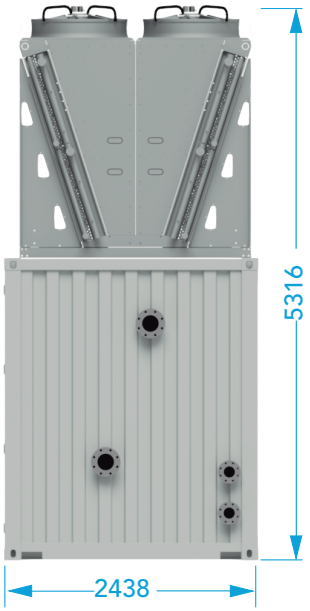
Container Option





Container Option + aero condenser





Compliance with regulations and standards

- Low voltage Directive
- Machinery Directive
- Electromagnetic Compatibility Directive
- Pressurized Equipment Directive
- EN/ISO 3744:2010
- UNE EN 10216
- UNE EN 764-7
- UNE EN 13136:2014+A1
- 2006/42/CE
- 2014/68/UE
- ASME B31.1 / ASME B31.3 – Process Piping Code
- ASME Boiler and Pressure Vessel Code Section VIII
- UL 508A- Control Panel Wiring
- 2014/35/UE
- 2014/30/UE

Rank.® ORC 1MWt

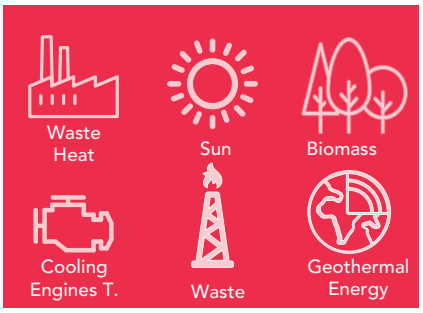
Example point of operation

W3.4

Selected operating point

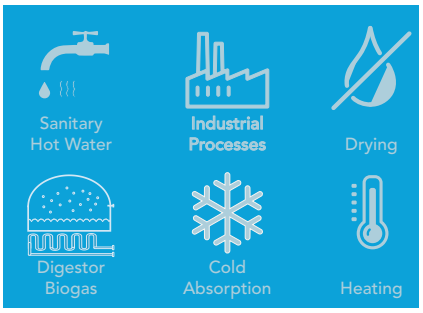
Heat source \ Tin (ºC)	Water-Water Generator Power				
170	126	123	119	110	96
150	119	114	108	88	75
130	117	97	80	**75**	56
110	108	86	71	-	-
90	83	66	-	-	-
Tin (ºC)	10	25	40	**55**	70
Tout (ºC)	20	35	50	**65**	80

Useful heat / Disipation



Heat source

Heat transfer fluid	Agua
Inlet temperature	130 °C
Outlet temperature	110 °C
Volumetric flow rate	45 m³/h
Thermal power	1.000 kWt
Pressure drop	100 kPa



Useful heat Disipation

Heat transfer fluid	Agua
Inlet temperature	55 °C
Outlet temperature	65 °C
Volumetric flow rate	74 m³/h
Thermal power	849 kWt
Pressure drop	100 kPa

Electricity

Gross power	75 kWe
Net power	66 kWe
Voltage	3x400 V
Frequency	50 Hz
Intensity	121 A

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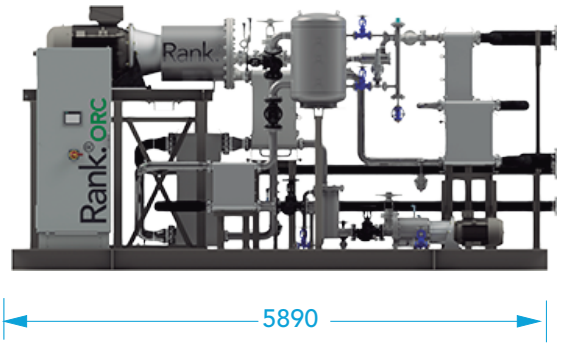
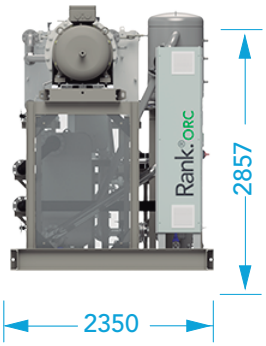
Dimensions

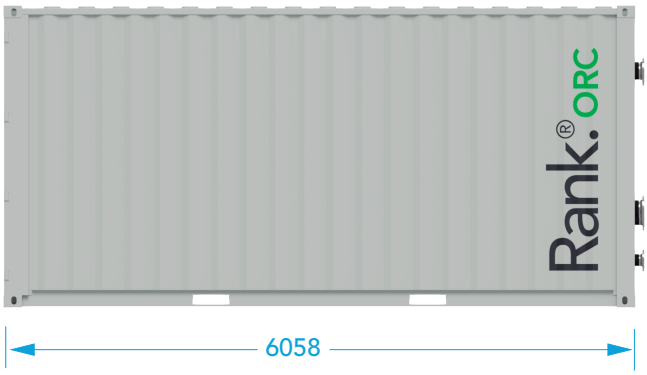
Basic Option

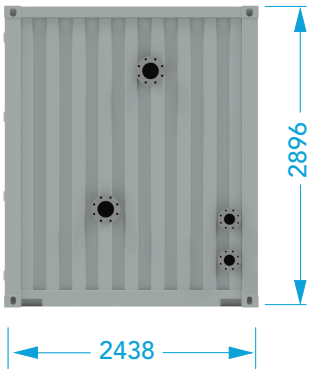




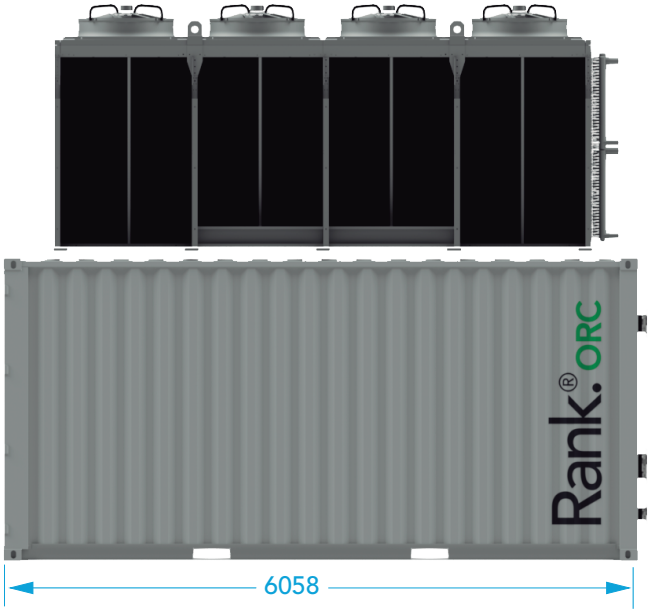
Wrap-around Option

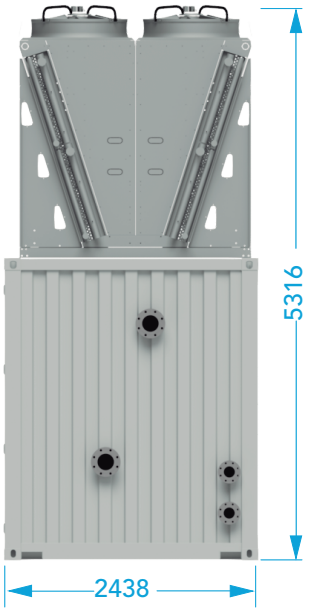
Container Option





Container Option + aero condenser





Compliance with regulations and standards

- Low voltage Directive
- Machinery Directive
- Electromagnetic Compatibility Directive
- Pressurized Equipment Directive
- EN/ISO 3744:2010
- UNE EN 10216
- UNE EN 764-7
- UNE EN 13136:2014+A1
- 2006/42/CE
- 2014/68/UE
- ASME B31.1 / ASME B31.3 – Process Piping Code
- ASME Boiler and Pressure Vessel Code Section VIII
- UL 508A- Control Panel Wiring
- 2014/35/UE
- 2014/30/UE

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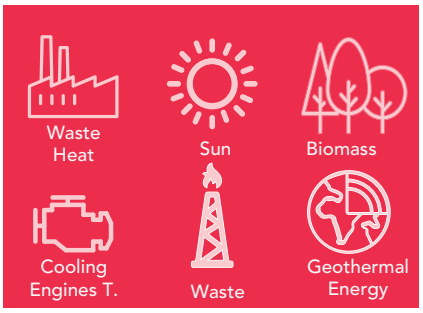
Example point of operation

W3.5

Selected operating point

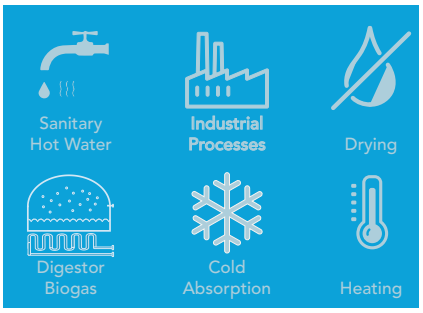
Heat source: Tin (ºC)	Water-Water Generator Power				
170	126	123	119	110	96
150	119	114	108	88	75
130	117	97	80	75	**56**
110	108	86	71	-	-
90	83	66	-	-	-
Tin (ºC)	10	25	40	55	**70**
Tout (ºC)	20	35	50	65	**80**

Useful heat / Disipation



Heat source

Heat transfer fluid	Agua
Inlet temperature	130 °C
Outlet temperature	110 °C
Volumetric flow rate	45 m³/h
Thermal power	1.000 kWt
Pressure drop	100 kPa



Useful heat Disipation

Heat transfer fluid	Agua
Inlet temperature	70 °C
Outlet temperature	80 °C
Volumetric flow rate	78 m³/h
Thermal power	886 kWt
Pressure drop	100 kPa

Electricity

Gross power	56 kWe
Net power	48 kWe
Voltage	3x400 V
Frequency	50 Hz
Intensity	90 A

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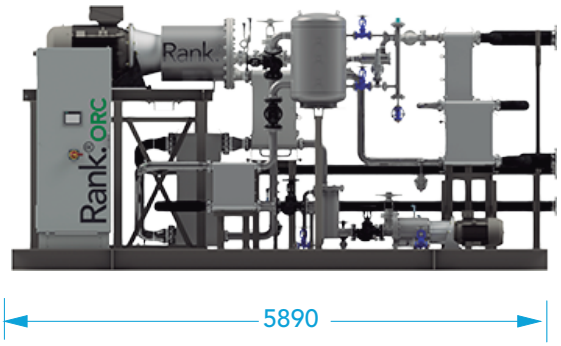
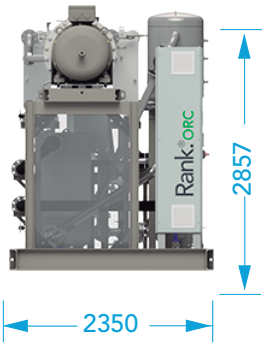
Dimensions

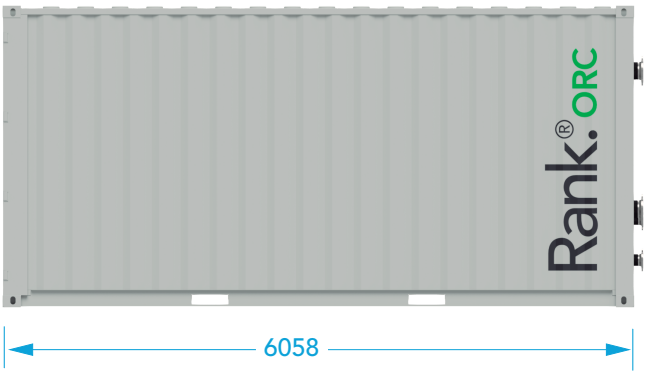
Basic Option

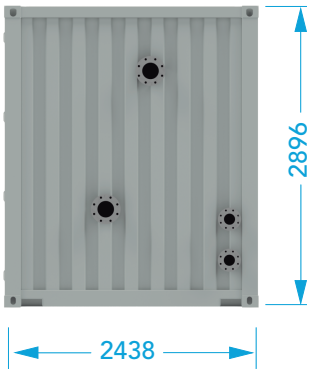




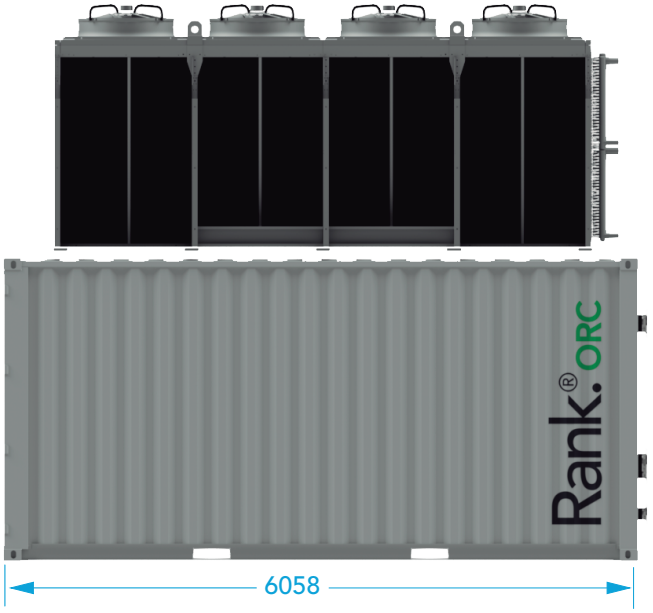
Wrap-around Option

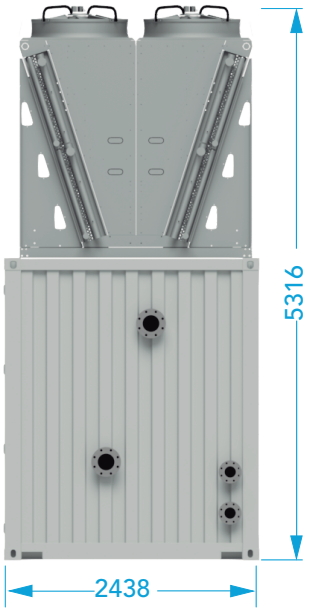
Container Option





Container Option + aero condenser





Compliance with regulations and standards

- Low voltage Directive
- Machinery Directive
- Electromagnetic Compatibility Directive
- Pressurized Equipment Directive
- EN/ISO 3744:2010
- UNE EN 10216
- UNE EN 764-7
- UNE EN 13136:2014+A1
- 2006/42/CE
- 2014/68/UE
- ASME B31.1 / ASME B31.3 – Process Piping Code
- ASME Boiler and Pressure Vessel Code Section VIII
- UL 508A- Control Panel Wiring
- 2014/35/UE
- 2014/30/UE

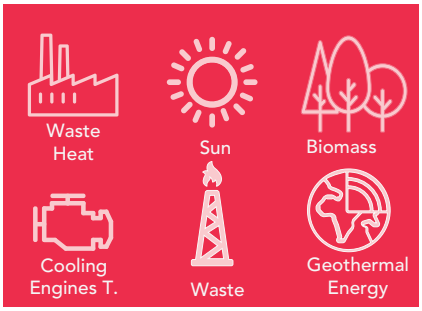
Rank.® ORC 1MWt

Example point of operation

W4.1

Selected operating point

Heat source \ Useful heat / Dissipation	Tin (ºC)					
						Water-Water Generator Power
170	126	123	119	110	96
150	119	114	108	88	75
130	117	97	80	75	56
110	**108**	86	71	-	-
90	83	66	-	-	-
Tin (ºC)	**10**	25	40	55	70
Tout (ºC)	**20**	35	50	65	80



Heat source

Heat transfer fluid	Agua
Inlet temperature	110 °C
Outlet temperature	90 °C
Volumetric flow rate	45 m³/h
Thermal power	1.000 kWt
Pressure drop	100 kPa

Useful heat Disipation

Heat transfer fluid	Agua
Inlet temperature	10 °C
Outlet temperature	20 °C
Volumetric flow rate	69 m³/h
Thermal power	797 kWt
Pressure drop	100 kPa

Electricity

Gross power	108 kWe
Net power	95 kWe
Voltage	3x400 V
Frequency	50 Hz
Intensity	174 A

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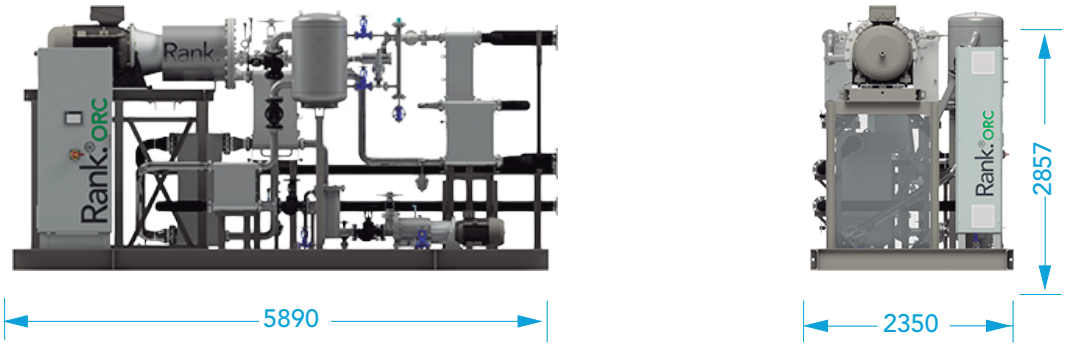
Dimensions

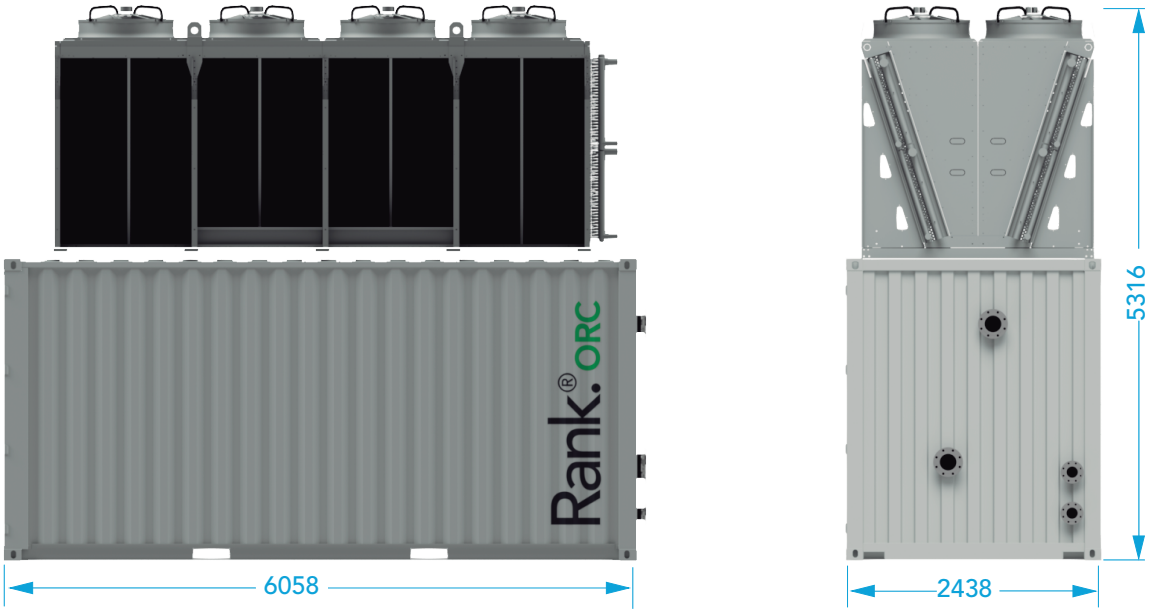
Basic Option



Wrap-around Option

Container Option

Container Option + aero condenser



Compliance with regulations and standards

- Low voltage Directive
- Machinery Directive
- Electromagnetic Compatibility Directive
- Pressurized Equipment Directive
- EN/ISO 3744:2010
- UNE EN 10216
- UNE EN 764-7
- UNE EN 13136:2014+A1
- 2006/42/CE
- 2014/68/UE
- ASME B31.1 / ASME B31.3 – Process Piping Code
- ASME Boiler and Pressure Vessel Code Section VIII
- UL 508A- Control Panel Wiring
- 2014/35/UE
- 2014/30/UE

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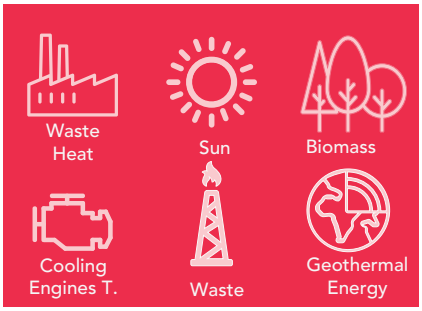
Example point of operation

W4.2

Selected operating point

Water-Water Generator Power

Heat source \ Useful heat / Dissipation	Tin (ºC)					
Tin (ºC)	170	126	123	119	110	96
	150	119	114	108	88	75
	130	117	97	80	75	56
	110	108	86	71	-	-
	90	83	66	-	-	-
Tout (ºC)	10	25	40	55	70	
	20	35	50	65	80	



Heat source

Heat transfer fluid	Agua
Inlet temperature	110 °C
Outlet temperature	90 °C
Volumetric flow rate	45 m³/h
Thermal power	1.000 kWt
Pressure drop	100 kPa

Useful heat Disipation

Heat transfer fluid	Agua
Inlet temperature	25 °C
Outlet temperature	35 °C
Volumetric flow rate	72 m³/h
Thermal power	829 kWt
Pressure drop	100 kPa

Electricity

Gross power	86 kWe
Net power	72 kWe
Voltage	3x400 V
Frequency	50 Hz
Intensity	138 A

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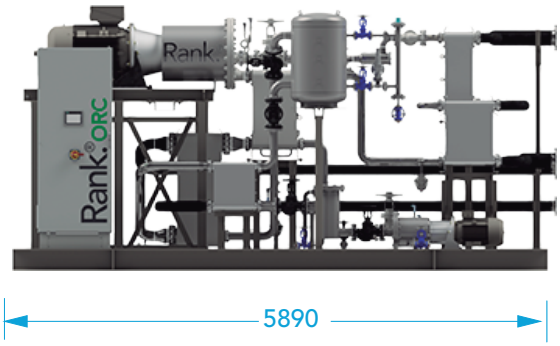
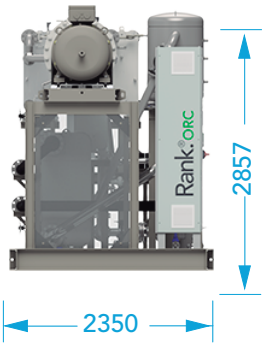
Dimensions

Basic Option





5890

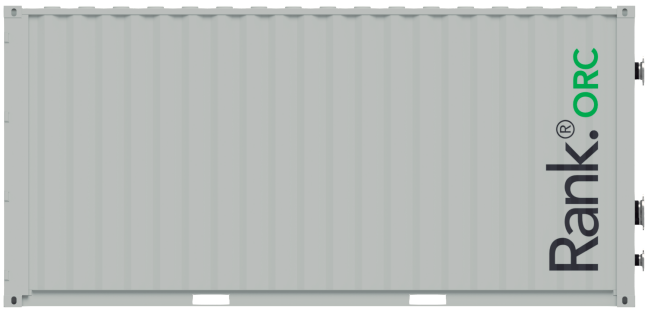
2350

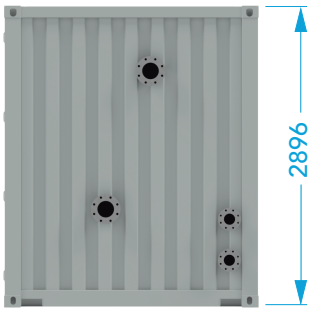
Wrap-around Option

5940

2295

Container Option

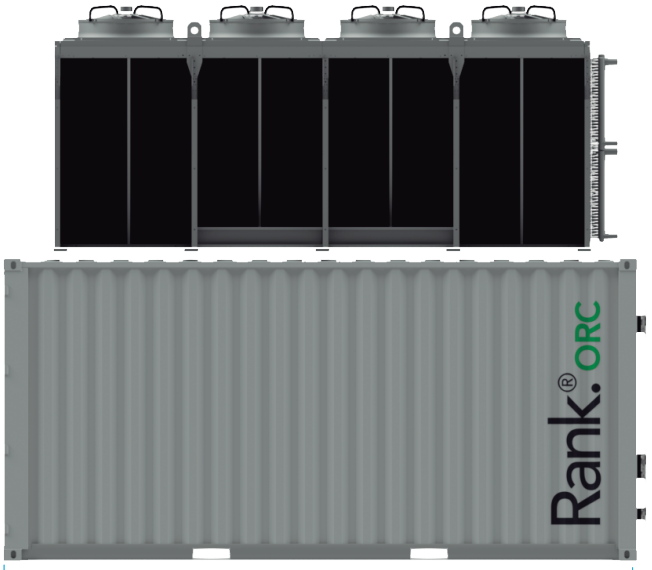


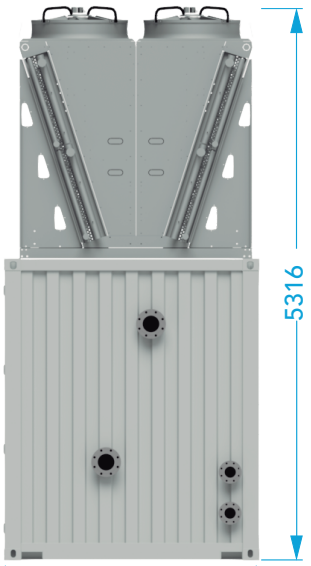


6058

2438

Container Option + aero condenser





6058

2438

Compliance with regulations and standards

- Low voltage Directive
- Machinery Directive
- Electromagnetic Compatibility Directive
- Pressurized Equipment Directive
- EN/ISO 3744:2010
- UNE EN 10216
- UNE EN 764-7
- UNE EN 13136:2014+A1
- 2006/42/CE
- 2014/68/UE
- ASME B31.1 / ASME B31.3 – Process Piping Code
- ASME Boiler and Pressure Vessel Code Section VIII
- UL 508A- Control Panel Wiring
- 2014/35/UE
- 2014/30/UE

Rank.® ORC 1MWt

Example point of operation

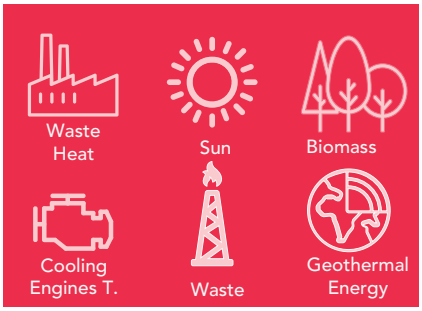
W4.3

Selected operating point

Water-Water Generator Power

Heat source \ Tin (ºC)					
170	126	123	119	110	96
150	119	114	108	88	75
130	117	97	80	75	56
110	108	86	71	-	-
90	83	66	-	-	-
Tin (ºC)	10	25	40	55	70
Tout (ºC)	20	35	50	65	80

Useful heat / Disipation



Heat source

Heat transfer fluid	Agua
Inlet temperature	110 °C
Outlet temperature	90 °C
Volumetric flow rate	45 m³/h
Thermal power	1.000 kWt
Pressure drop	100 kPa

Useful heat Disipation

Heat transfer fluid	Agua
Inlet temperature	40 °C
Outlet temperature	50 °C
Volumetric flow rate	75 m³/h
Thermal power	866 kWt
Pressure drop	100 kPa

Electricity

Gross power	71 kWe
Net power	57 kWe
Voltage	3x400 V
Frequency	50 Hz
Intensity	114 A

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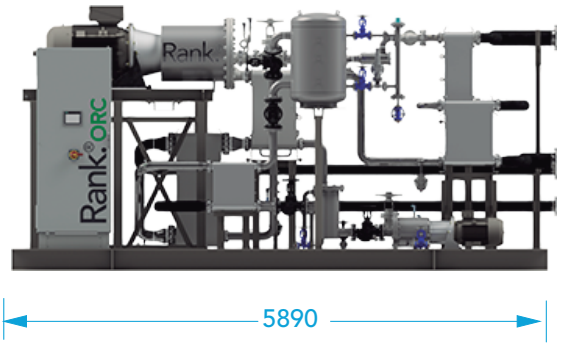
Dimensions

Basic Option



5890

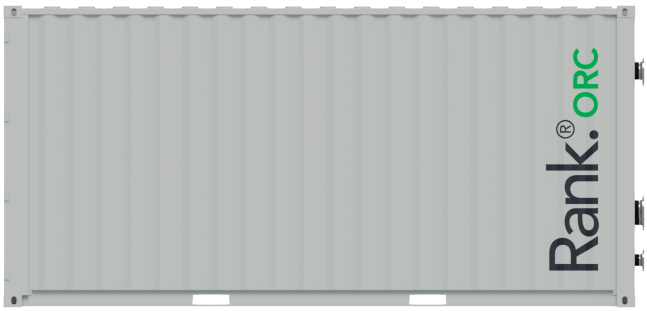
2350

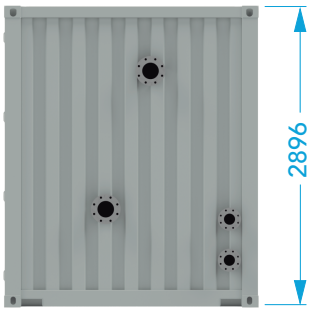
Wrap-around Option

5940

2295

Container Option

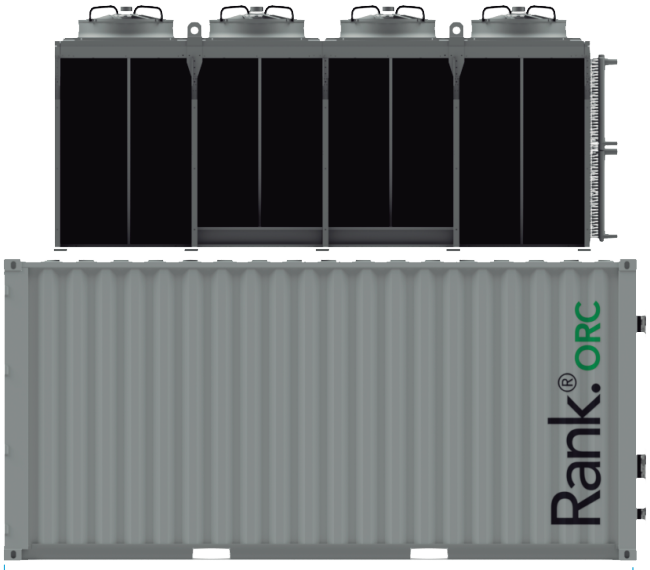


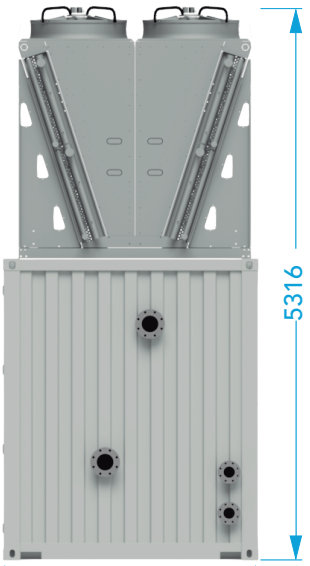


6058

2438

Container Option + aero condenser





6058

2438

Compliance with regulations and standards

- Low voltage Directive
- Machinery Directive
- Electromagnetic Compatibility Directive
- Pressurized Equipment Directive
- EN/ISO 3744:2010
- UNE EN 10216
- UNE EN 764-7
- UNE EN 13136:2014+A1
- 2006/42/CE
- 2014/68/UE
- ASME B31.1 / ASME B31.3 – Process Piping Code
- ASME Boiler and Pressure Vessel Code Section VIII
- UL 508A- Control Panel Wiring
- 2014/35/UE
- 2014/30/UE

Rank® ORC 1MWt

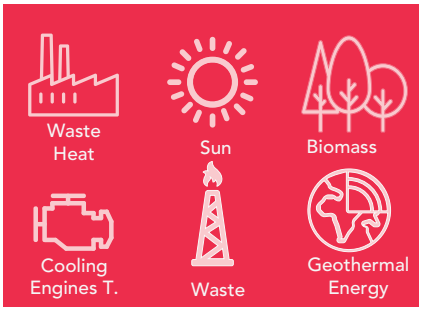
Example point of operation

W5.1

Selected operating point

Heat source \ Useful heat / Dissipation	Tin (ºC)					
		Tout (ºC)				
		10	25	40	55	70
		20	35	50	65	80
Tin (ºC)	170	126	123	119	110	96
	150	119	114	108	88	75
	130	117	97	80	75	56
	110	108	86	71	-	-
	90	83	66	-	-	-

Water-Water Generator Power



Heat source

Heat transfer fluid	Agua
Inlet temperature	90 °C
Outlet temperature	70 °C
Volumetric flow rate	44 m³/h
Thermal power	1.000 kWt
Pressure drop	100 kPa

Useful heat Disipation

Heat transfer fluid	Agua
Inlet temperature	10 °C
Outlet temperature	20 °C
Volumetric flow rate	73 m³/h
Thermal power	846 kWt
Pressure drop	100 kPa

Electricity

Gross power	83 kWe
Net power	75 kWe
Voltage	3x400 V
Frequency	50 Hz
Intensity	134 A

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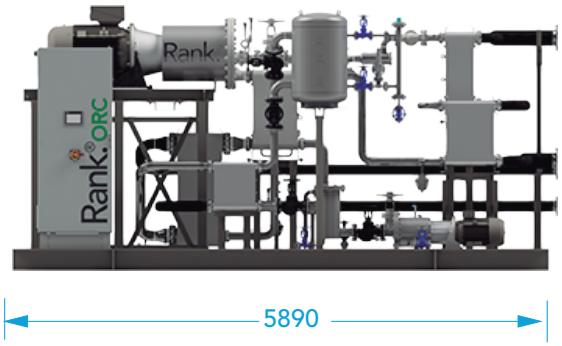
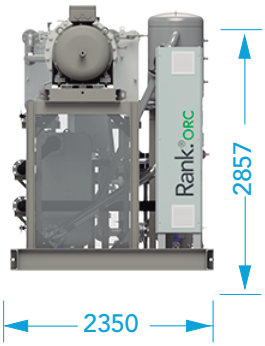
Dimensions

Basic Option





5890

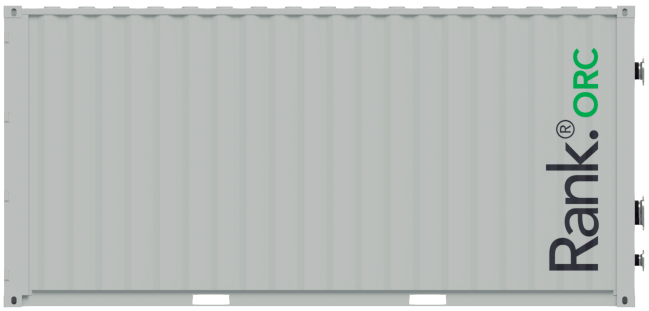
2350

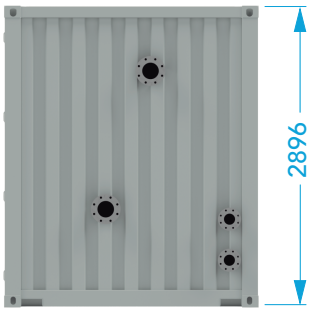
Wrap-around Option

5940

2295

Container Option





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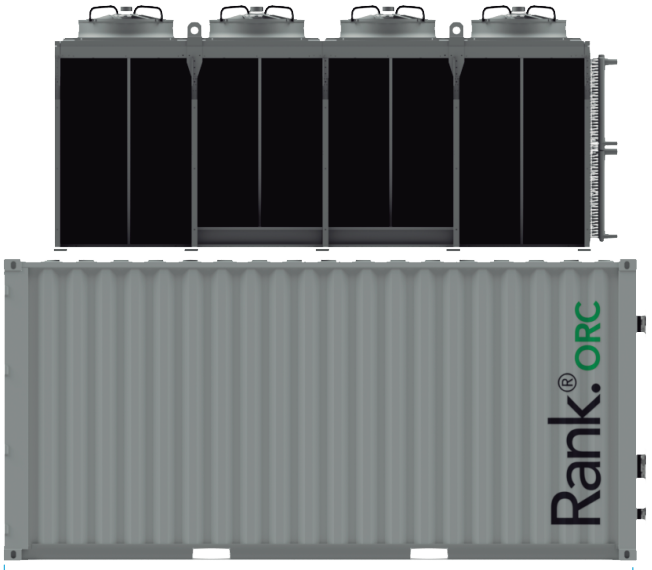
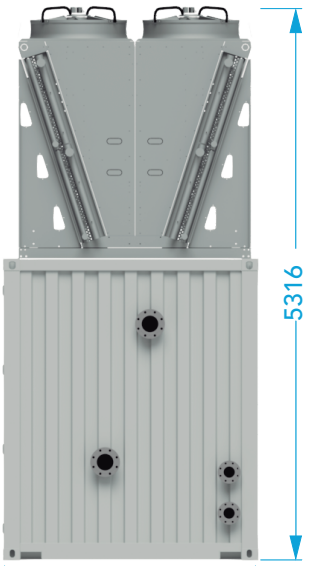
Container Option + aero condenser





6058

2438

Compliance with regulations and standards

- Low voltage Directive
- Machinery Directive
- Electromagnetic Compatibility Directive
- Pressurized Equipment Directive
- EN/ISO 3744:2010
- UNE EN 10216
- UNE EN 764-7
- UNE EN 13136:2014+A1
- 2006/42/CE
- 2014/68/UE
- ASME B31.1 / ASME B31.3 – Process Piping Code
- ASME Boiler and Pressure Vessel Code Section VIII
- UL 508A- Control Panel Wiring
- 2014/35/UE
- 2014/30/UE

Rank.® ORC 1MWt

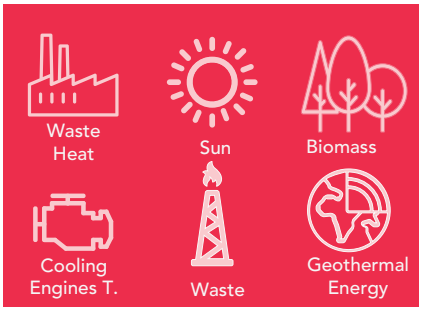
Example point of operation

W5.2

Selected operating point

Water-Water Generator Power

Heat source \ Useful heat / Dissipation	Tin (ºC)					
Tin (ºC)	170	126	123	119	110	96
	150	119	114	108	88	75
	130	117	97	80	75	56
	110	108	86	71	-	-
	90	83	66	-	-	-
Tout (ºC)	10	25	40	55	70	
	20	35	50	65	80	



Heat source

Heat transfer fluid	Agua
Inlet temperature	90 °C
Outlet temperature	70 °C
Volumetric flow rate	44 m³/h
Thermal power	1.000 kWt
Pressure drop	100 kPa

Useful heat Disipation

Heat transfer fluid	Agua
Inlet temperature	25 °C
Outlet temperature	35 °C
Volumetric flow rate	76 m³/h
Thermal power	879 kWt
Pressure drop	100 kPa

Electricity

Gross power	66 kWe
Net power	58 kWe
Voltage	3x400 V
Frequency	50 Hz
Intensity	106 A

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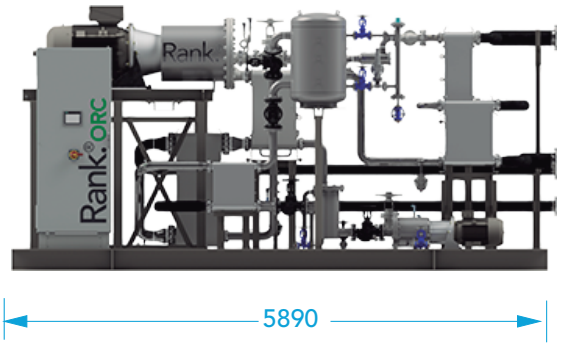
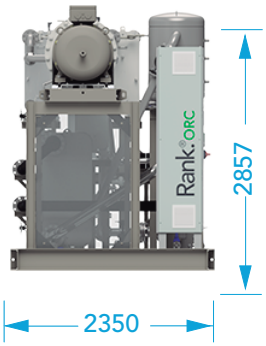
Dimensions

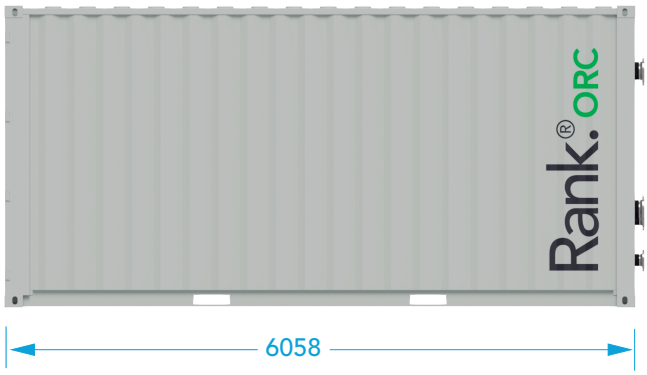
Basic Option

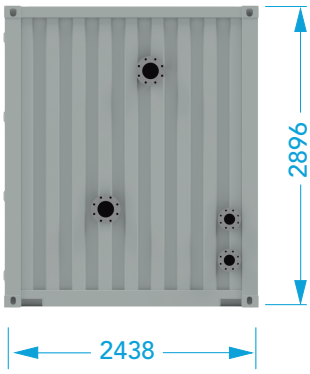




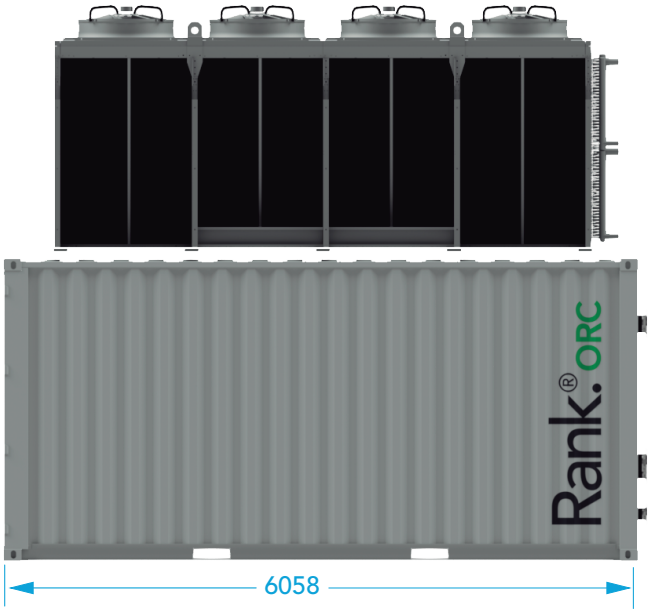
Wrap-around Option

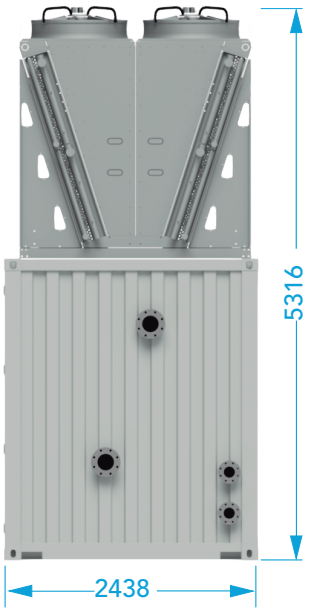
Container Option





Container Option + aero condenser





Compliance with regulations and standards

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- Pressurized Equipment Directive
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- 2014/35/UE
- 2014/30/UE