

The right temperature worldwide

LAUDA



- Low maintenance requirements
- Flexible designs for customization
- Suitable for outdoor installation

NEW

**LAUDA Ultracool
Industrial chillers**

LAUDA Ultracool

Process circulation chillers for industrial applications with cooling capacities up to 265 kW at working temperatures from -5 up to 25 °C in ambient conditions from -15 up to 50 °C



Application examples

- Digital printing
- Laser cutting
- Laser sorting
- Point welding
- Induction heating
- Injection molding

High cooling capacities, compact design, versatile options

LAUDA Ultracool chillers provide reliable temperature control and ensure secure processing. The chillers of the UC series are available as Ultracool Standard (ST) and Ultracool Superplus (SP). All chillers are already equipped with an antifreeze protection thermostat to prevent freezing of the heat exchanger. Integrated pressure switches protect the circuit against pressure levels that drift too high or too low. Housings made from galvanized

steel and externally coated with epoxy resin protects against corrosion even under aggressive ambient conditions. Most of the models are suitable for outdoor installation. The Ultracool Standard units provide the necessary cooling capacity for customers who already have a pump and a water reservoir installed. The Superplus models are plug & operate systems equipped with a cold water tank, a centrifugal pump and an internal bypass.

Your advantages at a glance



The Ultracool advantages

Your benefits



- Centrifugal high-quality water pump with internal bypass
- Use of plate heat exchangers outside of the water tank
- Evaporator and pump in stainless steel construction
- Level switch

- Allows flow rates from 0 to 100 percent
- Efficient heat exchange and low energy loss
- Corrosion resistant
- Pump protection in case of low level



- Integrated water filter and antibacterial additive
- Insulated water tank made of polyethylene
- Use of thermostatic expansion valve

- Protection of application and chiller system
- Corrosion resistant and durable
- Automatic adjustment to changing work load conditions and optimal cooling capacity



- Protection class IP 54
- Suitable for ambient temperatures up to 50 °C
- Housing made from galvanized steel and externally coated with epoxy resin
- Antifreeze protection thermostat
- Use of R 134a and R 407C as refrigerants

- Suitable for outdoor installation
- Operation under extreme ambient temperature conditions
- Protection against corrosion even under aggressive ambient conditions
- Prevents freezing of heat exchanger
- No ozone depletion potential (ODP)



- Versatile options, including pump, special color, stainless steel housing, wheels, external bypass, water-cooled versions, DI water, etc.

- Customization possibilities for OEM



- Compact and smart design
- Integrated pressure switches
- Large cold water tank

- User friendly installation and maintenance and reduction of footprint to save installation space
- Protection of the refrigeration circuit against pressures that drift too high or too low
- Keeps water temperature constant even under varying load conditions

LAUDA Ultracool

Ultracool UC Mini chillers up to 4.7 kW



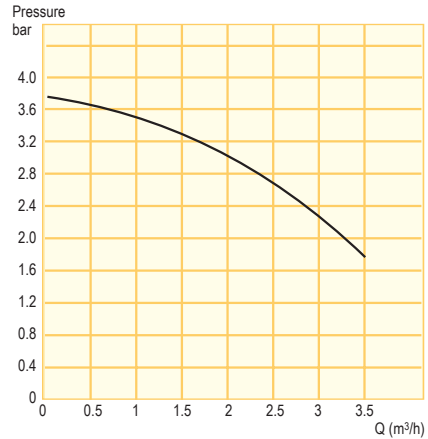
The three UC Mini chillers are available with cooling capacities from 1.9 up to 4.7 kW. The models work with a reciprocating compressor and a centrifugal pump. The pump is noise reduced and works with a very flat flow rate/pressure characteristic. This allows the user to easily adjust the water flow without jeopardizing the pressure.

By using R 134a as refrigerant, the pressure inside the refrigeration system is rather low and therefore the units can work in ambient temperatures up to 50 °C.



Circulation chiller UC-0040 SP

Pump characteristic



Options UC Mini

- 5 bar pump
- Refrfluid 1 (heat transfer liquid with antifreeze + bactericide + anticorrosive)
- External bypass
- Modbus remote control
- Increased temperature stability ± 0.7 K
- Water-cooled version
- Stainless steel housing for food and medical industry
- Wheels
- Customized color
- Condenser air filter



Additional technical data on pages 7 and 8.

Technical features UC Mini Standard		UC-0020 ST	UC-0030 ST	UC-0040 ST
Working temperature range	°C	-5...25	-5...25	-5...25
Ambient temperature range	°C	5...50	5...50	5...50
Cooling output*	kW	1.9	3.5	4.7
Cat. No. 230 V; 50 Hz		E6813102	E6813104	E6813106
Cat. No. 220 V; 60 Hz		E6813302	E6813304	E6813306

Technical features UC Mini Superplus		UC-0020 SP	UC-0030 SP	UC-0040 SP
Working temperature range	°C	-5...25	-5...25	-5...25
Ambient temperature range	°C	5...50	5...50	5...50
Cooling output*	kW	1.9	3.5	4.7
Pump pressure nominal	bar	3.5	3.3	3.1
Pump flow nominal	L/min	5.6	10.3	13.8
Volume water tank	L	35	35	35
Cat. No. 230 V; 50 Hz		E6813002	E6813004	E6813006
Cat. No. 220 V; 60 Hz		E6813202	E6813004	E6813206

* at 10 °C water outlet temperature and 25 °C ambient temperature, for 50 Hz versions

Ultracool UC Midi chillers up to 26.3 kW



Six UC Midi types have cooling capacities ranging from 7.1 up to 26.3 kW. The models work with a reciprocating or scroll compressor and a centrifugal pump. The noise-reduced pump allows customers to easily adjust the water flow. The use of R 134a as refrigerant ensures very low working pressures inside the refrigeration system and operation in ambient temperatures up to 50 °C. The integrated motor fan speed regulator allows operation in ambient conditions up to -15 °C and reduces the noise level additionally.

The models UC-0060 to UC-0240 are also available as UC laser models with pre-configured options included.



Circulation chiller UC-0240 SP



Options UC Midi

- 5 bar pump
- Refrfluid 1 (heat transfer liquid with antifreeze + bactericide + anticorrosive)
- External bypass
- Modbus remote control
- Auto filling kit
- Increased temperature stability ± 0.7 K
- Water pre-heater
- Water-cooled version
- Feet (wheels as standard)
- External threaded BSP (British Standard Pipe) or NPT stainless steel connections
- Customized color
- Condenser air filter



Options UC laser

- 5 bar pump
- Pump totally in stainless steel
- Increased temperature stability ± 0.7 K



Additional technical data on pages 7 and 8.

Technical features UC Midi Standard	UC-0060 ST	UC-0080 ST	UC-0100 ST	UC-0140 ST	UC-0180 ST	UC-0240 ST
Working temperature range	°C	-5...25	-5...25	-5...25	-5...25	-5...25
Ambient temperature range	°C	-15...50	-15...50	-15...50	-15...50	-15...50
Cooling output*	kW	7.1	9.4	11.7	14.5	22.0
Cat. No. 400-440 V; 3/PE; 50 Hz	E6813108	E6813110	E6813112	E6813114	E6813116	E6813118
Cat. No. 440-480 V; 3/PE; 60 Hz	E6813308	E6813310	E6813312	E6813314	E6813316	E6813318

Technical features UC Midi Superplus	UC-0060 SP	UC-0080 SP	UC-0100 SP	UC-0140 SP	UC-0180 SP	UC-0240 SP
Working temperature range	°C	-5...25	-5...25	-5...25	-5...25	-5...25
Ambient temperature range	°C	-15...50	-15...50	-15...50	-15...50	-15...50
Cooling output*	kW	7.1	9.4	11.7	14.5	22.0
Pump pressure nominal	bar	4.0	4.0	3.9	3.7	3.2
Pump flow nominal	L/min	20.1	26.6	33.6	43.8	62.6
Volume water tank	L	100	100	100	100	100
Cat. No. 400-440 V; 3/PE; 50 Hz	E6813008	E6813010	E6813012	E6813014	E6813016	E6813018
Cat. No. 440-480 V; 3/PE; 60 Hz	E6813208	E6813210	E6813212	E6813214	E6813216	E6813218

* at 10 °C water outlet temperature and 25 °C ambient temperature, for 50 Hz versions

LAUDA Ultracool

Ultracool UC Maxi chillers up to 265 kW



Within the Ultracool Maxi range, there are four chillers with cooling capacities from 34.1 up to 64.4 kW which work with one single refrigeration circuit. The five models from 87.9 up to 265 kW of cooling capacities work with two independent refrigeration circuits to provide a backup security. All Maxi models are equipped with scroll compressors, work with R 407C as refrigerant and are suitable for outdoor installation. The internal pipes for the water circuit are made of PP-R (polypropylene random copolymer) and are thermowelded. Besides the main advantage that these connections are absolutely leak free, PP-R is corrosion and frost proof, allow for smaller pressure drops and are long lasting.

The models UC-0300 to UC-0650 are also available as UC laser models with pre-configured options included.



Circulation chiller UC-0400 SP



Options UC Maxi

- 5 bar pump
- Refrfluid 1 (heat transfer liquid with antifreeze + bactericide + anticorrosive)
- External bypass
- Auto filling kit
- Increased temperature stability +/- 0.7 K
- Water pre-heater
- Water-cooled version
- External threaded BSP or NPT stainless steel connections
- Motor fan speed regulator
- Modbus remote control



Options UC laser

- 5 bar pump
- Pump totally in stainless steel
- Increased temperature stability ± 0.7 K



Additional technical data and further power supply variants on pages seven and eight.

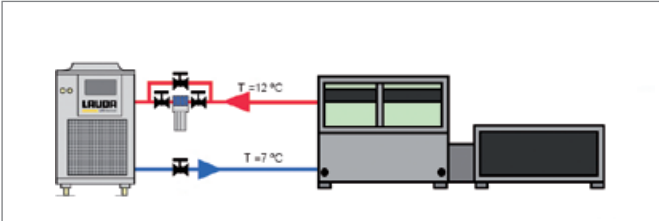
Technical features UC Maxi Standard	UC-0300 ST	UC-0400 ST	UC-0500 ST	UC-0650 ST	UC-0800 ST	UC-1000 ST	UC-1350 ST	UC-1700 ST	UC-2400 ST
Working temperature range	°C	-5...25	-5...25	-5...25	-5...25	-5...25	-5...25	-5...25	-5...25
Ambient temperature range	°C	-15...45	-15...45	-15...45	-15...45	-15...45	-15...45	-15...45	-15...45
Cooling output*	kW	34.1	43.3	48.7	64.4	87.9	106.4	139.2	175.7
Cat. No. 400-440 V; 3/PE; 50 Hz	E6813120	E6813122	E6813124	E6813126	E6812128	E6812130	E6812132	E6812134	E6812136
Cat. No. 440-480 V; 3/PE; 60 Hz	E6813320	E6813322	E6813324	E6813326	E6812328	E6812330	E6812332	E6812334	E6812336

Technical features UC Maxi Superplus	UC-0300 SP	UC-0400 SP	UC-0500 SP	UC-0650 SP	UC-0800 SP	UC-1000 SP	UC-1350 SP	UC-1700 SP	UC-2400 SP
Working temperature range	°C	-5...25	-5...25	-5...25	-5...25	-5...25	-5...25	-5...25	-5...25
Ambient temperature range	°C	-15...45	-15...45	-15...45	-15...45	-15...45	-15...45	-15...45	-15...45
Cooling output*	kW	34.1	43.3	48.7	64.4	87.9	106.4	139.2	175.7
Pump pressure nominal	bar	3.9	3.6	3.3	3.7	3.4	3.3	4.3	3.6
Pump flow nominal	L/min	98.0	123.0	150.0	196.0	247.0	299.0	392.0	494.0
Volume water tank	L	200	200	200	300	300	500	500	500
Cat. No. 400-440 V; 3/PE; 50 Hz	E6813020	E6813022	E6813024	E6813026	E6812028	E6812030	E6812032	E6812034	E6812036
Cat. No. 440-480 V; 3/PE; 60 Hz	E6813220	E6813222	E6813224	E6813226	E6812228	E6812230	E6812232	E6812234	E6812236

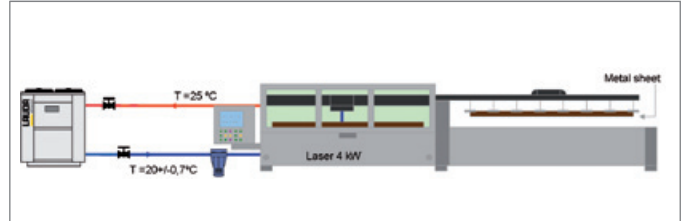
* at 10 °C water outlet temperature and 25 °C ambient temperature, for 50 Hz versions

Application examples

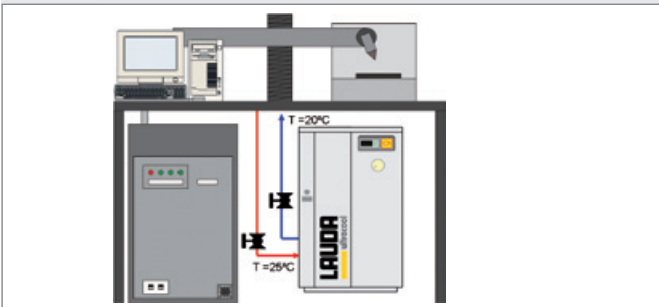
Digital printing



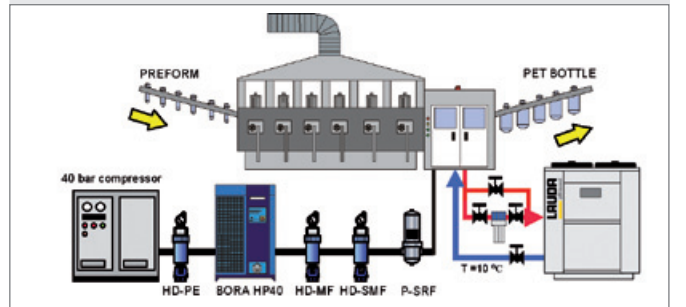
Laser cutting



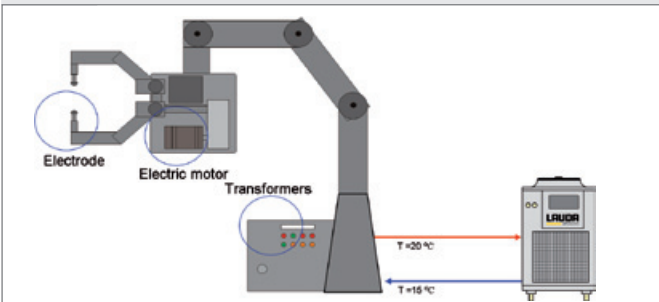
Laser marking



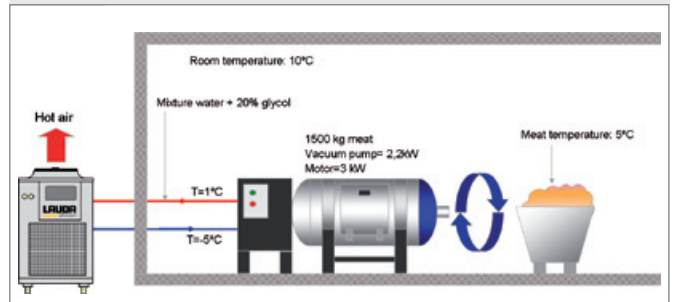
PET blowing



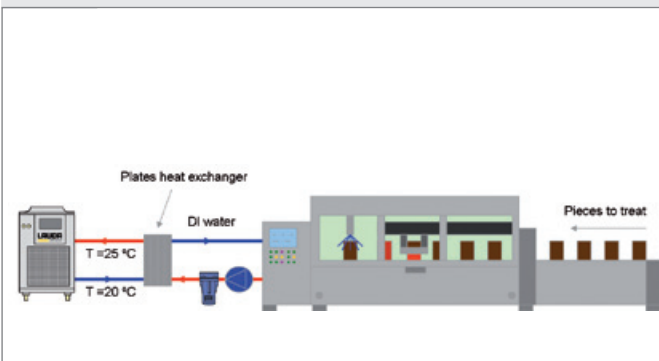
Point welding



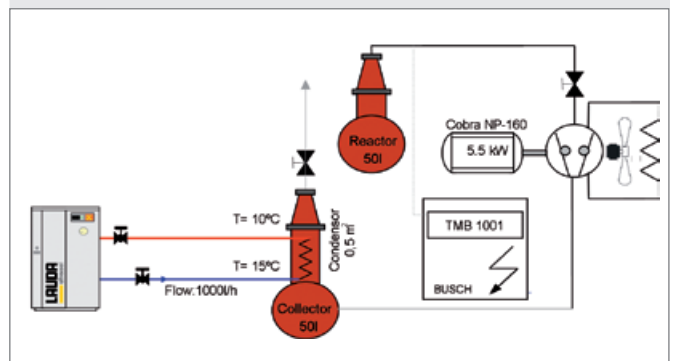
Meat mixing drums



Induction heating



Vacuum pumps



LAUDA Technical data

Technical data

Type	Working temperature range °C	Temperature stability +/- K	Ambient temperature range °C	Cooling output * kW	Pump pressure max. bar	Pump flow max. L/min	Pump pressure nominal bar	Pump flow nominal L/min	Pump connection thread L	Volume water tank mm	Dimensions (WxDxH)	Protection level	Noise level dB(A)	Weight kg	Loading kW	Cat. No.	Type
LAUDA Ultracool Mini - 230 V; 50 Hz																	
UC-0020 ST	-5...25	2	5...50	1.9	-	-	-	-	-	-	534x630x940	IP 44	55.0	100	0.9	E6813102	UC-0020 ST
UC-0030 ST	-5...25	2	5...50	3.5	-	-	-	-	-	-	581x712x1167	IP 44	50.1	105	1.2	E6813104	UC-0030 ST
UC-0040 ST	-5...25	2	5...50	4.7	-	-	-	-	-	-	581x712x1167	IP 44	51.5	110	1.4	E6813106	UC-0040 ST
UC-0020 SP	-5...25	2	5...50	1.9	3.5	60	3.5	5.6	1/2"	35	534x630x940	IP 44	55.0	115	1.4	E6813002	UC-0020 SP
UC-0030 SP	-5...25	2	5...50	3.5	3.5	60	3.3	10.3	1/2"	35	581x712x1167	IP 44	50.1	120	1.7	E6813004	UC-0030 SP
UC-0040 SP	-5...25	2	5...50	4.7	3.5	60	3.1	13.8	1/2"	35	581x712x1167	IP 44	51.5	125	1.9	E6813006	UC-0040 SP

LAUDA Ultracool Midi - 400-440 V; 3/PE; 50 Hz																	
UC-0060 ST	-5...25	2	-15...50	7.1	-	-	-	-	-	-	715x945x1490	IP 54	56.3	145	2.9	E6813108	UC-0060 ST
UC-0080 ST	-5...25	2	-15...50	9.4	-	-	-	-	-	-	715x945x1490	IP 54	60.1	155	3.5	E6813110	UC-0080 ST
UC-0100 ST	-5...25	2	-15...50	11.7	-	-	-	-	-	-	715x945x1490	IP 54	58.5	155	4.1	E6813112	UC-0100 ST
UC-0140 ST	-5...25	2	-15...50	14.5	-	-	-	-	-	-	715x945x1490	IP 54	58.1	150	5.0	E6813114	UC-0140 ST
UC-0180 ST	-5...25	2	-15...50	22.0	-	-	-	-	-	-	715x945x1490	IP 54	56.0	180	5.6	E6813116	UC-0180 ST
UC-0240 ST	-5...25	2	-15...50	26.3	-	-	-	-	-	-	715x945x1490	IP 54	57.5	195	6.7	E6813118	UC-0240 ST
UC-0060 SP	-5...25	2	-15...50	7.1	4.2	130	4.0	20.1	1"	100	715x945x1490	IP 54	56.3	165	3.6	E6813008	UC-0060 SP
UC-0080 SP	-5...25	2	-15...50	9.4	4.2	130	4.0	26.6	1"	100	715x945x1490	IP 54	60.1	175	4.2	E6813010	UC-0080 SP
UC-0100 SP	-5...25	2	-15...50	11.7	4.2	130	3.9	33.6	1"	100	715x945x1490	IP 54	58.5	175	4.8	E6813012	UC-0100 SP
UC-0140 SP	-5...25	2	-15...50	14.5	4.2	130	3.7	43.8	1"	100	715x945x1490	IP 54	58.1	180	5.8	E6813014	UC-0140 SP
UC-0180 SP	-5...25	2	-15...50	22.0	4.2	130	3.2	62.6	1"	100	715x945x1490	IP 54	56.0	210	6.4	E6813016	UC-0180 SP
UC-0240 SP	-5...25	2	-15...50	26.3	4.2	130	2.7	84.0	1"	100	715x945x1490	IP 54	57.5	230	7.5	E6813018	UC-0240 SP

LAUDA Ultracool Maxi - 400-440 V; 3/PE; 50 Hz																	
UC-0300 ST	-5...25	2	-15...45	34.1	-	-	-	-	-	-	1005x1565x1965	IP 54	50.2	420	7.6	E6813120	UC-0300 ST
UC-0400 ST	-5...25	2	-15...45	43.3	-	-	-	-	-	-	1005x1565x1965	IP 54	53.5	420	9.5	E6813122	UC-0400 ST
UC-0500 ST	-5...25	2	-15...45	48.7	-	-	-	-	-	-	1005x1565x1965	IP 54	55.3	420	11.1	E6813124	UC-0500 ST
UC-0650 ST	-5...25	2	-15...45	64.4	-	-	-	-	-	-	1005x1565x1965	IP 54	59.2	590	15.5	E6813126	UC-0650 ST
UC-0800 ST	-5...25	2	-15...45	87.9	-	-	-	-	-	-	1545x2230x2010	IP 54	58.3	980	24.1	E6812128	UC-0800 ST
UC-1000 ST	-5...25	2	-15...45	106.4	-	-	-	-	-	-	1660x3400x2090	IP 54	63.1	1380	27.9	E6812130	UC-1000 ST
UC-1350 ST	-5...25	2	-15...45	139.2	-	-	-	-	-	-	1660x3400x2090	IP 54	62.6	1480	36.4	E6812132	UC-1350 ST
UC-1700 ST	-5...25	2	-15...45	175.7	-	-	-	-	-	-	1660x3400x2090	IP 54	61.3	1540	47.0	E6812134	UC-1700 ST
UC-2400 ST	-5...25	2	-15...45	265.0	-	-	-	-	-	-	1660x3585x2090	IP 54	62.7	1585	59.3	E6812136	UC-2400 ST
UC-0300 SP	-5...25	2	-15...45	34.1	4.7	230	3.9	98.0	1 1/2"	200	1005x1565x1965	IP 54	50.2	450	9.1	E6813020	UC-0300 SP
UC-0400 SP	-5...25	2	-15...45	43.3	4.7	230	3.6	123.0	1 1/2"	200	1005x1565x1965	IP 54	53.5	450	11.0	E6813022	UC-0400 SP
UC-0500 SP	-5...25	2	-15...45	48.7	4.7	230	3.3	150.0	1 1/2"	200	1005x1565x1965	IP 54	55.3	450	12.6	E6813024	UC-0500 SP
UC-0650 SP	-5...25	2	-15...45	64.4	4.7	420	3.7	196.0	1 1/2"	300	1005x1565x1965	IP 54	59.2	630	18.0	E6813026	UC-0650 SP
UC-0800 SP	-5...25	2	-15...45	87.9	4.7	420	3.4	247.0	1 1/2"	300	1545x2230x2010	IP 54	58.3	1020	26.6	E6812028	UC-0800 SP
UC-1000 SP	-5...25	2	-15...45	106.4	5.0	330	3.3	299.0	2"	500	1660x3400x2090	IP 54	63.1	1460	30.9	E6812030	UC-1000 SP
UC-1350 SP	-5...25	2	-15...45	139.2	5.0	750	4.3	392.0	2 1/2"	500	1660x3400x2090	IP 54	62.6	1570	41.9	E6812032	UC-1350 SP
UC-1700 SP	-5...25	2	-15...45	175.7	5.0	750	3.6	494.0	2 1/2"	500	1660x3400x2090	IP 54	61.3	1630	52.5	E6812034	UC-1700 SP
UC-2400 SP	-5...25	2	-15...45	265.0	5.9	1160	3.8	733.0	DN 80	500	1660x3585x2090	IP 54	62.7	1690	66.8	E6812036	UC-2400 SP

* at 10 °C water outlet temperature and 25 °C ambient temperature

Power supply variants

Type	Working temperature range °C	Temperature stability +/- K	Ambient temperature range °C	Cooling output * kW	Pump pressure max. bar	Pump flow max. L/min	Pump pressure nominal bar	Pump flow nominal L/min	Pump connection thread	Volume water tank L	Dimensions (WxDxH) mm	Protection level	Noise level dB(A)	Weight kg	Loading kW	Cat. No.	Type
LAUDA Ultracool Mini - 220 V; 60 Hz																	
UC-0020 ST	-5...25	2	5...50	1.9	-	-	-	-	-	-	534x630x940	IP 44	57.0	100	0.8	E6813302	UC-0020 ST
UC-0030 ST	-5...25	2	5...50	3.8	-	-	-	-	-	-	581x712x1167	IP 44	54.2	105	1.2	E6813304	UC-0030 ST
UC-0040 ST	-5...25	2	5...50	4.6	-	-	-	-	-	-	581x712x1167	IP 44	55.5	110	1.5	E6813306	UC-0040 ST
UC-0020 SP	-5...25	2	5...50	1.9	3.5	50	3.4	5.6	1/2"	35	534x630x940	IP 44	57.0	115	1.4	E6813202	UC-0020 SP
UC-0030 SP	-5...25	2	5...50	3.8	3.5	50	3.3	10.3	1/2"	35	581x712x1167	IP 44	54.2	120	1.8	E6813204	UC-0030 SP
UC-0040 SP	-5...25	2	5...50	4.6	3.5	50	3.2	13.8	1/2"	35	581x712x1167	IP 44	55.5	125	2.1	E6813206	UC-0040 SP

LAUDA Ultracool Midi - 440-480 V; 3/PE; 60 Hz																	
UC-0060 ST	-5...25	2	-15...50	9.3	-	-	-	-	-	-	715x945x1490	IP 54	56.5	145	3.8	E6813308	UC-0060 ST
UC-0080 ST	-5...25	2	-15...50	11.3	-	-	-	-	-	-	715x945x1490	IP 54	60.8	155	4.2	E6813310	UC-0080 ST
UC-0100 ST	-5...25	2	-15...50	14.4	-	-	-	-	-	-	715x945x1490	IP 54	60.8	155	5.1	E6813312	UC-0100 ST
UC-0140 ST	-5...25	2	-15...50	16.8	-	-	-	-	-	-	715x945x1490	IP 54	60.8	150	6.3	E6813314	UC-0140 ST
UC-0180 ST	-5...25	2	-15...50	25.9	-	-	-	-	-	-	715x945x1490	IP 54	58.0	180	6.8	E6813316	UC-0180 ST
UC-0240 ST	-5...25	2	-15...50	30.4	-	-	-	-	-	-	715x945x1490	IP 54	59.1	195	8.5	E6813318	UC-0240 ST
UC-0060 SP	-5...25	2	-15...50	9.3	4.1	125	3.9	20.1	1"	100	715x945x1490	IP 54	56.5	165	4.6	E6813208	UC-0060 SP
UC-0080 SP	-5...25	2	-15...50	11.3	4.1	125	3.8	26.6	1"	100	715x945x1490	IP 54	60.8	175	5.0	E6813210	UC-0080 SP
UC-0100 SP	-5...25	2	-15...50	14.4	4.1	125	3.8	33.6	1"	100	715x945x1490	IP 54	60.8	175	5.9	E6813212	UC-0100 SP
UC-0140 SP	-5...25	2	-15...50	16.8	4.1	125	3.7	43.8	1"	100	715x945x1490	IP 54	60.8	180	7.1	E6813214	UC-0140 SP
UC-0180 SP	-5...25	2	-15...50	25.9	4.1	125	3.5	62.6	1"	100	715x945x1490	IP 54	58.0	210	8.0	E6813216	UC-0180 SP
UC-0240 SP	-5...25	2	-15...50	30.4	4.1	125	3.1	84.0	1"	100	715x945x1490	IP 54	59.1	230	9.8	E6813218	UC-0240 SP

LAUDA Ultracool Maxi - 440-480 V; 3/PE; 60 Hz																	
UC-0300 ST	-5...25	2	-15...45	41.3	-	-	-	-	-	-	1005x1565x1965	IP 54	55.6	420	7.6	E6813320	UC-0300 ST
UC-0400 ST	-5...25	2	-15...45	50.8	-	-	-	-	-	-	1005x1565x1965	IP 54	57.4	420	9.5	E6813322	UC-0400 ST
UC-0500 ST	-5...25	2	-15...45	57.5	-	-	-	-	-	-	1005x1565x1965	IP 54	58.3	420	11.1	E6813324	UC-0500 ST
UC-0650 ST	-5...25	2	-15...45	76.1	-	-	-	-	-	-	1005x1565x1965	IP 54	64.8	590	15.5	E6813326	UC-0650 ST
UC-0800 ST	-5...25	2	-15...45	103.4	-	-	-	-	-	-	1545x2230x2010	IP 54	61.3	980	24.1	E6812328	UC-0800 ST
UC-1000 ST	-5...25	2	-15...45	127.3	-	-	-	-	-	-	1660x3400x2090	IP 54	65.2	1380	27.9	E6812330	UC-1000 ST
UC-1350 ST	-5...25	2	-15...45	164.6	-	-	-	-	-	-	1660x3400x2090	IP 54	64.3	1480	36.4	E6812332	UC-1350 ST
UC-1700 ST	-5...25	2	-15...45	206.7	-	-	-	-	-	-	1660x3400x2090	IP 54	64.3	1540	47.0	E6812334	UC-1700 ST
UC-2400 ST	-5...25	2	-15...45	313.0	-	-	-	-	-	-	1660x3585x2090	IP 54	68.5	1585	59.3	E6812336	UC-2400 ST
UC-0300 SP	-5...25	2	-15...45	41.3	4.8	300	4.7	98.0	1 1/2"	200	1005x1565x1965	IP 54	55.6	450	11.7	E6813220	UC-0300 SP
UC-0400 SP	-5...25	2	-15...45	50.8	4.8	300	4.5	124.0	1 1/2"	200	1005x1565x1965	IP 54	57.4	450	14.0	E6813222	UC-0400 SP
UC-0500 SP	-5...25	2	-15...45	57.5	4.8	300	4.3	150.0	1 1/2"	200	1005x1565x1965	IP 54	58.3	450	16.4	E6813224	UC-0500 SP
UC-0650 SP	-5...25	2	-15...45	76.1	4.8	300	3.8	196.0	1 1/2"	300	1005x1565x1965	IP 54	64.8	630	25.1	E6813226	UC-0650 SP
UC-0800 SP	-5...25	2	-15...45	103.4	4.8	300	3.0	247.0	1 1/2"	300	1545x2230x2010	IP 54	61.3	1020	35.2	E6812228	UC-0800 SP
UC-1000 SP	-5...25	2	-15...45	127.3	5.2	430	4.5	299.0	2"	500	1660x3400x2090	IP 54	65.2	1460	41.1	E6812230	UC-1000 SP
UC-1350 SP	-5...25	2	-15...45	164.6	5.4	600	4.9	392.0	2 1/2"	500	1660x3400x2090	IP 54	64.3	1570	51.2	E6812232	UC-1350 SP
UC-1700 SP	-5...25	2	-15...45	206.7	5.4	600	4.2	494.0	2 1/2"	500	1660x3400x2090	IP 54	64.3	1630	66.9	E6812234	UC-1700 SP
UC-2400 SP	-5...25	2	-15...45	313.0	3.7	1170	2.9	733.0	DN 80	500	1660x3585x2090	IP 54	68.5	1690	89.4	E6812236	UC-2400 SP

* at 10 °C water outlet temperature and 25 °C ambient temperature

LAUDA Ultracool

Ultracool options

The LAUDA Ultracool product range offers very flexible designs and production lines for customization. For the UC Mini and Midi range there is one, for the Maxi range there are two flexible platforms available. The two platforms allocate space for different housing types. Besides the Ultracool Standard and the

Ultracool Superplus versatile options can be included to provide a tailor-made solution for user applications. Ask our specialists for detailed information regarding the following options or additional options you would like to integrate into your chiller.

Option number	Designation	Description
1	5 bar pump	Housing and impeller in stainless steel AISI 304/316L
2	Pump totally made of stainless steel	Housing, impeller and water connections in stainless steel AISI 304/316L (standard on UC-0060 to UC-0650)
3	Auto filling kit	When the level is too low the water tank is opened by a solenoid valve and filled automatically
4	Motor fan speed regulator	Adjustment of the motor fan speed in order to keep the condensation pressure constant. Also reduction of noise and power consumption. Required for ambient temperatures below 0 °C (for units from UC-0300 to UC-2400)
5	Increased temperature stability	Water temperature stability of +/- 0.7 K (realised by a hot gas bypass valve)
6	Refrifluid 1	Chemical liquid used instead of water for protection of the water circuit. The liquid contains antifreeze (up to -7 °C), anticorrosive and bactericide
7	Wheels	Four nylon wheels with brales for easy movement (only available for UC-0020 to UC-0040)
8	Special color	Special color (RAL) for the housing of the unit
9	Water heater	Pre-heater to heat the water inside the water tank while the unit is idle
10	External bypass	External water bypass, required when the temperature difference between inlet and outlet is higher than 10 °C
11	Water cooling	Chiller cooled by water instead of air
12	Stainless steel threaded connections	Corrosion proof connections attached to the housing (only available for UC-0020 to UC-0650)
13	Flow switch	For extra safety. Stops the unit when there is no flow
14	Water flow meter	External digital device. Allows to read the exact flow of water
15	Feet	Feet for floor fixation (standard on UC-0020 to UC-0040 and UC-0300 to UC-2400)
16	Modbus remote control	Enables system to communicate with a Modbus network through a RS 485 interface
17	Air filter	Air filter in front of the condenser for protection in dusty environments

Thermostats · Circulation chillers · Water baths
Process cooling systems · Heat transfer systems · Secondary circuit systems
Viscometers · Tensiometers

LAUDA DR. R. WOBSEY GMBH & CO. KG · P.O. Box 12 51 · 97912 Lauda-Königshofen · Germany
Phone: +49 (0)9343 503-0 · Fax: +49 (0)9343 503-222 · E-mail: info@lauda.de · Internet: www.lauda.de