### Inspired by temperature



# Temperature Control for botanical extraction and processing



## Precise solutions for the complete cannabinoid isolation process



### Temperature control for botanical extraction and processing

Welcome to the forefront of cannabis extraction, where the delicate dance of temperature and technology transforms the cannabis experience. Our cutting-edge temperature control solutions empower extraction processes, ensuring the preservation of essential compounds and the delivery of superior, consistent results.

Cannabis extraction is the process of isolating and removing the active compounds, such as cannabinoids and terpenes, from the cannabis plant, to create concentrated forms of these substances. The primary goal of extraction is to obtain a more potent and versatile product that can be used for various purposes, including medicinal, recreational, or industrial applications. There are several methods of cannabis extraction, each with its own advantages. The extracted cannabis compounds are often used to produce products like oils, tinctures, concentrates, edibles, and topicals. These products can offer different consumption methods and potencies, catering to a diverse range of preferences among consumers. Additionally, cannabis extraction plays a crucial role in the development of pharmaceuticals.

As the cannabis industry continues to evolve, advancements in extraction technologies and techniques contribute to the production of high-quality and standardized cannabis extracts for both medical and recreational purposes.

### Our mission: make your work easier

We are the industry leader in precise temperature regulation. We've built our reputation on delivering solutions that simplify and enhance botanical extraction processes. Our expertise ensures that your entire workflow - from R&D to full-scale production - benefits from the most accurate and reliable temperature control systems available.

Our cutting-edge technology is designed to make your work easier, whether you're refining processes in the lab or managing high-volume production. By maintaining exact temperatures, our systems help optimize efficiency and consistency, reduce variability, and ensure highquality results every time. Our solutions are trusted by leading professionals in the botanical extraction industry because we understand that precise control can unlock better yields, faster processes, and consistent product quality. From small-scale experimentation to high-volume production, our temperature control units adapt seamlessly to meet your needs.

With our technology, you'll experience smoother workflows, fewer disruptions, and the peace of mind that comes with knowing you have complete control over critical extraction parameters. We contribute precise, repeatable and reliable temperature control easy, so you can focus on what matters - perfecting your product.



### Applications

- Hydrocarbon extraction
- Ethanol extraction
- CO<sub>2</sub> extraction
- Ice water extraction
- Winterization
- Filtration
- Decarboxylation
- Solvent recovery
- Short-path distillation
- Thin / wiped film distillation
- Recrystallization
- Formulations

## Get the most out of your extraction and distillation process

#### Solvent recovery

The solvent is distilled off, thus separated from the extract. Solvent recovery generally calls for condenser temperature between -20°C and 0°C. The ideal unit will depend on the volumes of solvent to be recovered.

#### Winterization / filtration

Winterization is a crucial step in the cannabis extraction process, a meticulous technique that elevates the quality and purity of cannabis extracts. This transformative process is designed to refine crude extracts, removing undesirable components and enhancing the overall clarity and potency of the final product.

### Extraction

Cannabis extraction is the process of isolating and removing key compounds, like cannabinoids and terpenes, from the cannabis plant.

Common methods include

- Hydrocarbon extraction
- Ethanol extraction
- CO<sub>2</sub> extraction

All methods require a specific set of temperature control zones and settings.







### Decarboxylation

Decarboxylation is vital for "activating" THC and CBD in cannabis. Applying heat removes the carboxylic acid (via the release of CO<sub>2</sub>), and unlocks their psychoactive and therapeutic effects, crucial for smoking, cooking, or making cannabis-infused products. Temperature control is essential for maintaining potency and reducing degradation.

#### Distillation

In this stage, crude oil is further purified through the process of fractional distillation. It involves heating the extract beyond its boiling point, causing it to evaporate. Once re-condensed, it is in a much more pure concentration.

- Vacuum distillation
- Short-path distillation
- Thin / Wiped film distillation

#### Recrystallization

Recrystallization purifies isolates by dissolving impurities in a solvent at high temperature, allowing the substance to recrystallize as it cools. The purified crystals are then separated, resulting in a higherpurity isolate. This method is widely used in cannabis extraction for obtaining pure cannabinoids CBN, THCV or CBG.

For these applications, thermal cycling and temperature ramps are often utilized in the -40 °C to +140 °C range.



### **Extraction** high volume production



There are many ways to perform an initial extraction, but all these methods have one thing in common – Huber. Whether it is ethanol extraction or butane, extraction of  $CO_2$  or propane, ice water or heptane, our temperature control units (TCUs) play a vital role in the cooling of solvents and the regulation of extraction temperatures.

### Hydrocarbon extraction

For hydrocarbon extraction, operators often utilize Huber CC and Unistat series to cool down solvent tanks, material columns, and various components. The target temperature range is generally -40 °C to -80 °C. Huber heating units, such as the KISS 202 and CC-315B, are often used on the solvent evaporation side of these "closed loop" systems.

### Ethanol extraction

In ethanol extraction, Unistats and Cool Smart CS Chillers are routinely used. Ethanol is generally brought down to temperature in a holding tank and then transferred to the process. Heat exchangers and flow through chillers can also allow for the cooling of ethanol. These applications generally call for large process volumes to be cooled quickly, requiring a high cooling capacity in the -20 °C to -80 °C range.

### CO<sub>2</sub> extraction

In the CO<sub>2</sub> extraction process, temperature control plays a crucial role. Columns are heated and chilled, as are feed and solvent lines, all in order to ensure extraction temperatures as well as maintain solvent pressure and flow. The Unistat T305 heating unit and Cool Smart CS Chillers are routinely paired with these units.

### Ice water extraction

Huber Chillers are not commonly seen, but sometimes utilized in the process of ice water extraction. Jacketed tanks are chilled down to temperature, in order to increase efficiency and reduce resource consumption.

Higher production goals require larger equipment; with the associated increase in cooling and heating power. The Huber standard product range starts at cooling powers of 280 watts at 15 °C up to 130 kW at 15 °C. Operation remains simple from the smallest to the largest.

### High volume production

Production demands are crucial, and flexibility is a highly desirable option, especially with varying production goals. For this reason, it is simple to run Huber machines in parallel as "redundant systems." Always having spare capacity gives a dimension of security.

At the industrial scale, Huber units offer high-flow pumps along with robust heating and cooling. These large TCUs can be integrated into high-volume production facilities with ease. Our large scale TCU's are capable of providing efficient temperature control to process tanks and reactors with volumes of up to 2,000 liters. Such large volumes can be cooled to low temperatures without the use of liquid nitrogen.

Our products that are commonly seen in these large scale applications include the Unistat 680 (60 kW at -40 °C) and the Unistat 950 (25 kW at -60 °C).

### Examples











### Winterization / filtration

Winterization is a process in cannabis extract production to remove impurities like fats and waxes. After extraction, the crude extract is mixed with a cold solvent, typically ethanol, causing undesired compounds to solidify. Filtration or centrifugation separates the solids, and evaporation removes the solvent. This results in a purer cannabis extract, enhancing clarity and potency.

### Decarboxylation

Decarboxylation is a vital process in preparing cannabis for consumption. It involves applying heat to convert non-psychoactive cannabinoids like THCA and CBDA into their active forms, THC (tetrahydrocannabinol) and CBD (cannabidiol). This transformation unlocks the psychoactive and therapeutic properties of the cannabinoids, making it essential for smoking, cooking, or creating cannabis-infused products. Proper temperature control is crucial to preserving potency while avoiding the degradation of other beneficial compounds in the plant.

### Recrystallization

Cannabis recrystallization is a refinement process used to purify cannabinoids extracted from the cannabis plant. This technique involves dissolving the extracted cannabinoids in a solvent, typically a hydrocarbon or ethanol, and then allowing them to slowly crystallize as the solvent evaporates. The slow crystallization process encourages the formation of larger, more pure crystals effectively removing impurities and undesirable compounds.

The goal of cannabis recrystallization is to enhance the purity of the cannabinoids such as THC or CBD resulting in a more refined and concentrated product. This process is often employed in the production of high-quality cannabis extracts and concentrates ensuring a cleaner and more potent final product for medicinal or recreational use. Proper control of temperature, solvent ratios and crystallization conditions is crucial to achieving optimal results in cannabis recrystallization.

# Fractional distillation

The wiped film evaporator (WFE) and short-path distillation apparatus are the most common methods for the refinement of crude oil. In this stage of purification, temperature stability & control are integral to process efficiency. Molecular distillation can take many forms, some more complex than others, but they all require heating and cooling in varying zones at varying set points. To maximize automation, our Pilot ONE system will allow all of the temperature control units to be controlled from a central point. Below are some examples of OEM pairings.







# Advanced solutions ultra-low and BTF5



## Ultra-low temperature solutions

Our LCS80 is the perfect solution for low-temperature applications. With 8.5 kW at -40 °C you can quickly chill large volumes of ethanol or manage multiple zones on a BHO extraction rig or any number of other applications that require low-temperature.

## BFT5 for shelf life stability testing

In the final stages of processing, extracts are often blended or mixed into formulations. Whether to facilitate a reaction, aid in homogenization or encourage an emulsification, temperature control is often needed in the final stages of formulation. Huber has a solution for every application, at every temperature.





With the BFT5 we offer a special heating and cooling unit for shelf stability testing of your beverage. The unit is fitted with a program for automatic temperature cycles that simulate storage at different stages of the beverage shelf life.

The changing the temperature between 0 and 60 °C in a cycle time of 24 hours over a period of days to closely replicate and accelerate product aging.

### Weed be good together



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<b>APICAL</b> www.apical.info	AGA Asahi Gassplant Inc. www.agiusaonline.com	<b>WRENCH</b> BEAKER & WRENCH
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	WWW.xtractordepot.com	7/055J www.710sci.rmreagents.com

### Technology leader in temperature control

We are the technology leader for high precision and responsive temperature control solutions for research and industry. Our expansive product line offers solutions for all temperature applications ranging from -125 °C to +425 °C. The product range includes highly dynamic temperature control systems with cooling capacities of up to 250 kW as well as chillers and heating/cooling circulators for applications in R&D laboratories, pilot plants, and production facilities.

We pioneered the technological development in the field of fluid temperature control with several innovative products. The introduction of Unistat temperature control systems in 1989 revolutionized temperature control technology. 35 years later, Unistats still set the pace when it comes to highly dynamic and responsive temperature control.



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# Selected models for precise temperature control

### Unistat T – high temperature closed loop systems

Chili and T300 / T400 Unistat series control temperatures in a highly precise and space-saving manner up to +425 °C. They set the standard for safety, ease of use, and temperature control speed.

HT models are equipped with stepper motor controlled water cooling.

ľ	Model	Working temperature range (°C)	Pump VP (l/min)	max. C (bar)	Heating power (kW)	400	Cooling (kW) a 300	) power at (°C) 200	100	Dimensions W x D x H (inch)
(	Chili	65300	45	0.9	2.7 - 3.0	-	-	-	-	9.5 x 16.8 x 15.5
- 1	Unistat T305	65300	45	0.9	4.8	-	-	-	-	16.7 x 9.8 x 24.8
	Unistat T305 HT	65300*	45	0.9	4.8	-	3.2	2.3	0.6	16.7 x 9.8 x 24.8
I	Unistat T305w HT	(15) 65300	45	0.9	4.8	-	10.0	10.0	10.0	16.7 x 9.8 x 24.8
1	Unistat T320	65300	96	3.5	10.5 - 12.0	-	-	-	-	21.3 x 26,7 x 46,2
	Unistat T320w HT	(15) 65300	96	3.5	10.5 - 12.0	-	10.0	10.0	6.0	21,3 x 26.7 x 46.2
	Unistat T330w HT	(15) 65300	96	3.5	21.0 - 24.0	-	18.0	18.0	10.0	21.3 x 26.7 x 46.2
	Unistat T340w HT	(15) 65300	90	5.5	43.0 - 48.0	-	20.0	20.0	12.0	31.5 x 41.7 x 63.0
1	Unistat T402	80425	45	0.9	4.8	_	_	_	_	19.9 x 15.8 x 30.1

\*lowest working temperature 15 K above ambient temperature

#### Chili – a powerful and effective heating circulation thermostat

Chili is the latest heating circulator for closed systems in the Unistat product family. The powerful unit guarantees highly accurate, reproducible temperature control results with short heat-up times and wide temperature ranges without fluid change. The closed circuit prevents oil vapors and oxidation, which increases the service life of the thermofluid. Chili is the smallest heating thermostat suitable for Malotherm. Perfect for a Thin / Wiped Film Evaporator.



oristat \$305

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### Cooling and heating bath circulators

Classic open-bath and circulation thermostats are used for many heating and cooling applications. There are more than 70 models in the series, available with the Pilot ONE or KISS controllers.



Model	Working temp. range	Heating power	opening	Bath depth	volume	max. pr	Pum essure	ip data max. si	uction	Coo (k\	ling po W) at ('	ower °C)	Dimensions WxDxH
	(°C)	(kW)	(inch)	(inch)	(ltr)	(l/min)	(bar)	(l/min)	(bar)	20	0	-20	(inch)
CC-202C	(-30)* 45200	1.0 - 1.5	Ø1.0	5.9	2	27	0.7	22	0.4	-	-	-	7.0 x 10.2 x 14.0
CC-304B	(-20)* 28300	1.0 - 1.5	5.1 x 3.9	6.1	5.0	25	0.7	18.5	0.4	-	-	-	8.3 x 13.2 x 15.4
CC-308B	(-20)* 28300	1.0 - 1.5	5.1 x 4.3	6.1	8.5	25	0.7	18.5	0.4	-	-	-	9.5 x 15.9 x 15.4
CC-315B	(-20)* 28300	3.0 - 3.5	10.6 x 5.7	7.9	15	25	0.7	18.5	0.4	-	-	-	13.2×15.0×17.1
CC-K6	-25200	1.6 - 2.1	5.5 x 4.7	5.9	4.5	27	0.7	22	0.4	0.20	0.15	0.05	8.3 x 15.8 x 21.5
KISS K6	-25200	1.5	5.5 x 4.7	5.9	4.5	14	0.25	10.5	0.17	0.20	0.15	0.05	8.3 x 15.8 x 21.5

\* Auxiliary cooling device required

Temperature stability: CC ±0.02 K



### Ministats – smallest heating and cooling bath circulators

Ministats are the smallest cooling circulators in the world and permit operation in small spaces, for example, in a fume hood or within a short-path distillation skid. The devices have a wide range of features and are ideally suited for the temperature control of botanical distillation.

Model	Working	Heating	Bath	า		Pump data Cooling power (kW)				kW)	Dimensions		
	temp. range	power	volume	depth	max. pre	essure	max. sı	uction		at	(°C)		WxDxH
	(°C)	(kW)	(ltr)	(inch)	(l/min)	(bar)	(l/min)	(bar)	20	0	-20	-30	(inch)
Ministat 125	-25150	1.0	2.75/1.3*	4.7	22	0.7	16	0.4	0.30	0.21	0.05	-	8.9×14.6×16.9
Ministat 230	-40200	1.6 - 2.1	3.2/1.7*	5.3	22	0.7	16	0.4	0.42	0.38	0.25	0.14	10.0 x 17.7 x 18.7
Ministat 240	-45200	1.6	4.9/2.8*	6.2	22	0.7	16	0.4	0.60	0.55	0.35	0.125	11.8 x 18.3 x 20.3

\* with displacement insert

### Powerful cooling bath circulators

Cooling bath circulators are equipped with insulated baths made from high-grade stainless steel and offer working temperatures down to -90°C up to +200°C. The devices are ideally suited for integration into extraction.

Model	Working	Heating	Ba	Bath		Pump data		Cooling power (kW)			Dimensions				
	temp. range	power	volume	e depth	max. pre	essure	max. su	iction			at (°0	<u>_</u> )			WxDxH
	(°C)	(kW)	(ltr)	(inch)	(l/min)	(bar)	(l/min)	(bar)	100	20	0	-20	-40	-60	(inch)
CC-505	-50200	1.6	5	5.9	25	0.7	18.5	0.4	1.2	1.2	1.0	0.6	0.15	-	16.1 x 18.9 x 30.1
CC-508	-55200	2.45	5	6.3	25	0.7	18.5	0.4	1.5	1.5	1.5	1.0	0.3	-	16.1 x 18.9 x 30.1
CC-902	-90200	1.8	5	5.9	25	0.7	18.5	0.4	1.2	1.2	1.2	1.1	0.9	0.6	21.7 x 23.6 x 35.9

➡ CC-902

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## Selected models for precise temperature control

Unichiller 500Tw

Minichiller 600-H OLÉ





#### **Minichiller & Unichiller**

The Minichiller and Unichiller series offer environmentally friendly and economic cooling solutions. The circulating chillers offer better efficiencies than cooling water, as well as stable pressure and flow rates and a constant operating temperature. They are suitable for a wide range of applications, such as removing heat from chemical processes or cooling scientific equipment.

Model	Working temperature	Pump Data max. pressure max. suctior		uction	Heating power		Dimensions				
	range (°C)	(l/min)	(bar)	(l/min)	(bar)	(kW)	15	0	-10	-20	WxDxH (inch)
Minichiller 300 OLÉ	-2040 (80)*	14	0.25	10.5	0.17	-	0.3	0.2	0.14	0.07	8.9×14.2×15,0
Minichiller 300-H OLÉ	-20100	14	0.25	10.5	0.17	1	0.3	0.2	0.14	0.07	8.9×14.2×15.0
Minichiller 600 OLÉ	-2040	24	0.7	18.0	0.4	-	0.6	0.5	0.35	0.15	11.0 x 19.3 x 16.7
Minichiller 600-H OLÉ	-20100	24	0.7	18.0	0.4	1.6 - 2.1	0.6	0.5	0.35	0.15	11.0 x 19.3 x 16.7
Unichiller 025 OLÉ	-1040	29	1.0	-	-	-	2.5	2.0	1.2	-	18.1 x 23.2 x 29.3
Unichiller 160T	-1040	96	6.4	-	-	-	16.0	8.8	4.0	-	35.6 x 62.3 x 72.3
Unichiller 300T	-2040	210	4.7	-	-	-	30.0	18.0	11.0	6.0	35.6 x 85.5 x 74.8
Unichiller 500Tw	-2040	234	4.7	-	-	-	50.0	30.0	19.0	-	39.4×43.3×64.4

\* Permissible return temperature +80°C Optional heating on request

### **CS** Chillers

The CS chiller range offers air-cooled models in different performance classes. They combine cool and smart technology in one unit, further reduce water consumption, and lower the operating costs for many applications.

Model	Working temperature	Pump	Data		Coolin	g pow at (°C)	er (kW)		Heating power	Noise Level	Dimensions
	range (°C)	(l/min)	(bar)	15	10	0	-10	-20	(kW)	(dB)	WxDxH (inch)
CS 25	-2015	50	4,5	3,5	2,5	1,6	0,98	0,7	-	60	22.8 x 26.0 x 32.3
CS 35	-2015	30	4,0	4,0	3,5	2,1	2,0	0,8	-	62	22.8 x 26.0 x 32.5
CS 50	-2015	83	4,0	8	5	4.2	3,5	2	-	63	26.8 x 28.7 x 59.8
CS 100	-2015	83	4,0	18	10	9.5	7,5	4,5		70	31.5 x 33.5 x 65.6
CS 100-H	-2085	83	3,7	18	10	9.5	7,5	4,5	5,5	70	31.5 x 33.5 x 65.6
CS 200	-2015	125	4,2	28	20	18	15	9,5		78	55.1 x 39.4 x 70.9
CS 200-H	-2085	125	4,2	28	20	18	15	9,5	5,5	78	55.1 x 39.4 x 70.9
CS 330 OD	-2015	125	4,7	42	35	25	17	11	-	78	55.1 x 39.4 x 70.9
CS 330-H OD	-2085	125	4,7	42	35	25	17	11	8	78	55.1 x 39.4 x 70.9
CS 550 OD	-2015	125	4,7	70	60	33	20	12	-	79	55.1 x 39.4 x 70.9

H = Heating, OD = Outdoor Option



### from -125 °C to +425 °C

#### Unistat 815 aircooled

Unistat 815w watercooled

aircooled

### Unistats – dynamic temperature control

Unistats are ideal for rapid and very precise temperature control of externally connected applications. There are more than 60 models available, with cooling capacities from 0,7 to 130 kW.

Model	Working	Pump max.		Heating	C	ooling p	Dimensions			
	range (°C)	ve (l/min)	(bar)	(kW)	250	0	-20	-40	-80	WxDxH (inch)
Unistat 405	-45250	55	0.9	3.0	1.1	1.1	0.6	0.15	-	16.8×12.9×24.8
Unistat 410	-45250	56	0.9	3.0	1.3	1.5	0.8	0.17	-	18.1×21.8×47.3
Unistat 510	-50250	112	1.5	6.0	5,3	5.3	2.8	0.9	-	22,1×29,7×57,4
Unistat 525	-55250	79	1.5	9.0	10.0	7.0	4.2	1.5	_	50.8 x 31.3 x 54.2
Unistat 615	-60200	60	1.5	12.0	-	9.5	8.0	4.0	-	50.8 x 28.9 x 62.8
Unistat 650w	-60200	343	4.0	48.0	-	65.0	56.0	28.0	-	70.9×47.2×72.1
Unistat 680w	-60200	600	4.0	96.0	-	130.0	80.0	60.0	-	177.2×85.0×88.6
Unistat 815	-85250	40	0.9	2.0	1.3	1.5	1.5	1.4	0.2	18.1×23.8×65.6
Unistat 825	-85250	40	0.9	3.0	2.3	2.2	2.0	2.0	0.3	18.1×23.8×65.6
Unistat 905	-90250	48	0.9	6.0	4.0	3.6	3.5	2.2	0.7	21.3×25.8×68.4
Unistat 915w	-90250	110	1.5	6.0	11.0	11.0	11.0	8.2	1.3	24.8×27.7×61.6
Unistat 950w	-90200	240	4.0	36.0	-	36.0	36.0	36.0	10.0	103.5×51.2×78.0

air- or water cooled models available

### TC – Immersion coolers

Immersion coolers are a flexible solution for numerous applications. Not only are they invaluable for dewar-style cold traps, but they also work great for counter-cooling heating circulators, as well as rapid cooling of liquids.

Model	Working temperature	С	ooling p at (	Dimensions		
	range (°C)	0	-20	-30	-90	WxDxH (inch)
TC45	-45100	0.24	0.18	0.1	-	7.5×11.6×14.2
TC45F	-45100	0.24	0.18	0.1	-	7.5 x 11.6 x 14.2
TC50	-5050	0.3	0.26	0.2	-	10.2×13.0×16.3
TC50E	-5050	0.3	0.26	0.2	-	10.2 x 13.0 x 16.3
TC100	-10040	0.16	0.15	0.14	0.07	11.6×19.7×22.4
TC100E	-10040	0.16	0.15	0.14	0.07	11.6×19.7×22.4

Options on request: various other special cooling probes available



### Service and maintenance



Proper installation and commissioning of the temperature control unit ensures a smooth start-up and reliable operation. This saves time and operator guesswork during the initial start-up process.

Commissioning #10680	First unit	Additional unit
<b>Zone 1</b> CA, DE, MD, NC, NJ, PA, WI	\$2,300	\$1,250
<b>Zone 2</b> AL, AR, AZ, CO, CT, FL, GA, IA, ID, IL, IN, KS, KY, LA, MA, ME, MI, MN, MO, MS, MT, ND, NE, NH, NM, NV, NY, OH, OK, OR, RI, SC, SD, TN, TX, UT, VA, VT, WA, WV, WY	\$2,900	\$1,350
Zone 3 AK, HI, CANADA	\$3,700	\$1,350

The service package includes additional services to improve the performance, safety and reliability of the temperature control unit.

Service Packages	Standard	<b>Silver</b> #65970	<b>Gold</b> #65971
24/7 technical support	✓	✓	✓
Remote diagnostics	$\checkmark$	$\checkmark$	$\checkmark$
3 Year Warranty	✓	✓	✓
Annual preventive maintenance		one visit	three visits
Commissioning – system startup & operation check		✓	✓
Operator training		$\checkmark$	$\checkmark$
No charge for travel expenses in warranty		✓	✓

**SILVER** Service Package includes one system start-up with training visit and one preventive maintenance visit within the three year warranty period.

**GOLD** Service Package includes one system start-up with training visit and three preventive maintenance visits within the three year warranty period.

### Get in contact



**Service hotline:** +1 844-223-8673







Technical details and dimensions are subject to change. No liability is accepted for errors or omissions.

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![](_page_19_Picture_6.jpeg)

![](_page_19_Picture_7.jpeg)