

OSBORNE

MILK CHILLING FOR THE BAR

British-built undercounter refrigeration, drilled at the factory for Übermilk milk hoses. Held in stock in Dublin.

ECOLD 420ES

DOUBLE DOOR · HIGH VOLUME

ECOLD 180ES

SINGLE DOOR · ONE OR TWO GROUPS

MM3M

COMPACT MILK CABINET



The holes are already in the fridge.

An Übermilk draws milk from a chiller through a hose, and that hose has to get into the chiller. On a generic bottle cooler that means someone drilling through an insulated cabinet on site, next to a sealed refrigeration circuit, on the morning of the install. It voids the fridge warranty, it needs a refrigeration engineer to do it safely, and it is the single most common way an Übermilk installation goes wrong before it has poured anything.

Osborne drill these cabinets at the factory, to Workflow's specification, before the foam is injected. The ports arrive sealed with grommets. You remove the grommet for the position you need and route the hose through it.

6 ports PRE-DRILLED • 420ES	38 mm PORT DIAMETER	2 years PARTS & LABOUR, IN IRELAND
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No drilling. No voided warranty. No refrigeration technician.

Because the cabinet leaves the factory already ported, nothing about the Übermilk connection touches the sealed system. The warranty is intact, the installation is a plumber-and-electrician job rather than a refrigeration job, and the machine can be commissioned the same day it lands.

The ports are sealed until you open them. An unused port stays grommited and the cabinet performs exactly as an unported one.

Workflow holds the Osborne range in stock in Dublin, supplies it alongside Übermilk and Markibar, and honours the two-year parts-and-labour warranty in Ireland. Osborne have built commercial refrigeration in West Sussex since 1963.

Three cabinets, sized by milk volume.

All three hold milk at +1 to +5 °C, all three are British-built, and all three arrive ported for Übermilk. The choice is capacity and where the cabinet can physically go.

eCold 420ES DOUBLE DOOR • BLACK  257 L CAPACITY 1110 WIDTH MM 6 PORTS The full-shift cabinet Enough milk under the counter to run a busy multi-group bar through a whole service without anyone going to the store room. ■ Sliding doors available — the only model that offers them ■ Six ports: two right, two top-left, two top-right ■ Three shelves per door ■ Front-vented — can be fully built in For two groups and up, 200+ milk drinks a day	eCold 180ES SINGLE DOOR • BLACK  129 L CAPACITY 597 WIDTH MM 6 PORTS The right-sized cabinet Same height and same milk temperature band as the 420ES in roughly half the width. The default for a one- or two-group bar. ■ Hinged door only — no sliding option on this model ■ Door is reversible: specify the hinge side ■ Two shelves plus base ■ Front-vented — can be fully built in For one or two groups, or a second position	MM3M COMPACT • BLACK  23 L CAPACITY 350 WIDTH MM 1 PORT The alongside cabinet Small enough to sit on the counter beside the Übermilk, or in a narrow undercounter gap. Takes three 3.4 L (6 pt) bottles or one 13.6 L pergal. ■ Single 38 mm port in the top ■ Lowest running cost in the range ■ Rear-vented — needs clearance behind, unlike the other two For countertop use, tight bars and second positions
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Built for milk, not for bottles of beer.

01 +1 to +5 °C, factory set A bottle cooler is usually set for a beverage band of +2 to +8 °C. Milk keeps and foams better at the tighter, colder band, and these cabinets are set to it from the factory. Warm milk foams thin and stales faster; the difference shows in the jug.	02 Factory-drilled ports Drilled before the insulation is foamed, so there is no exposed foam edge and nothing near the sealed system. Supplied with grommets fitted; open only the ones you use.
03 Front-vented — 420ES and 180ES Air in and out at the front, so the cabinet can be built in on three sides with only the front face clear. The MM3M is rear-vented and cannot be treated the same way — see section 05.	04 Sliding or hinged doors On the 420ES you can specify sliding. Behind a tight counter this is not cosmetic: a hinged door standing open blocks the run, and through service it will be standing open more than it is shut. See section 04.
05 R600a hydrocarbon refrigerant GWP of 3, against several hundred for the HFC blends still common in imported cabinets. No F-gas register obligation and no phase-down exposure on refills.	06 Double-glazed, lockable doors Double glazing keeps the glass clear rather than condensing, which matters when the cabinet sits in a warm bar behind an espresso machine. Locks are fitted as standard.

One thing to be clear about on energy

Osborne publish declared annual consumption under EU Regulation 2015/1094 at climate class 4 — **831 kWh/year for the 420ES, 648 for the 180ES and 454 for the MM3M**. Those declarations are for the **solid-door** versions. Osborne publish no declaration for the glass-door versions, which is what Workflow normally supplies, so the glass-door figure is genuinely unknown rather than merely different.

For the same reason this brochure carries no energy comparison against a competitor cabinet. Rival figures are declared under different standards and at different ambient temperatures, and a comparison built on them looks precise while meaning very little. If running cost is decisive for you, ask us and we will set out what is and is not comparable rather than print a number that flatters us.

What it changes behind the bar.

+ Install day stops being a risk

No one arrives to find the fridge cannot be drilled, or that drilling it has just ended the warranty. The chiller is craned into its aperture, plugged in, the grommet comes out and the hose goes through.

+ Milk that behaves the same all day

A tight, cold band means the last jug of the morning foams like the first. Milk held warm and re-chilled is the usual reason a bar's texture drifts after ten o'clock.

+ Fewer trips to the store room

A 420ES holds a full service of milk within arm's reach of the Übermilk. Baristas stay at the machine, which is where the queue is.

+ One supplier for the whole station

Chiller, Übermilk, grinder and tamper come from Workflow, arrive together and are commissioned together. One number to ring when something is wrong, and no argument about whose fault it is.

THE DECISION PEOPLE GET WRONG

Sliding doors versus hinged.

WHAT IT MEANS

A hinged door swings out into the run behind the counter. A sliding door stays within the cabinet's own width. Sliding is available on the **420ES only**.

WHY IT MATTERS

Through service the chiller door is open far more than it is shut. A hinged 420ES door standing open projects roughly 555 mm into the run; in a 900 mm gangway that leaves under 350 mm to pass — so people stop opening it, and the milk stays in the store room instead.

HOW TO DECIDE

Measure the clear run behind the counter. Under about 1,100 mm, specify sliding. Above it, hinged is fine. On the 180ES, where sliding is not offered, specify which side the door hinges and check the 597 mm swing against the run.

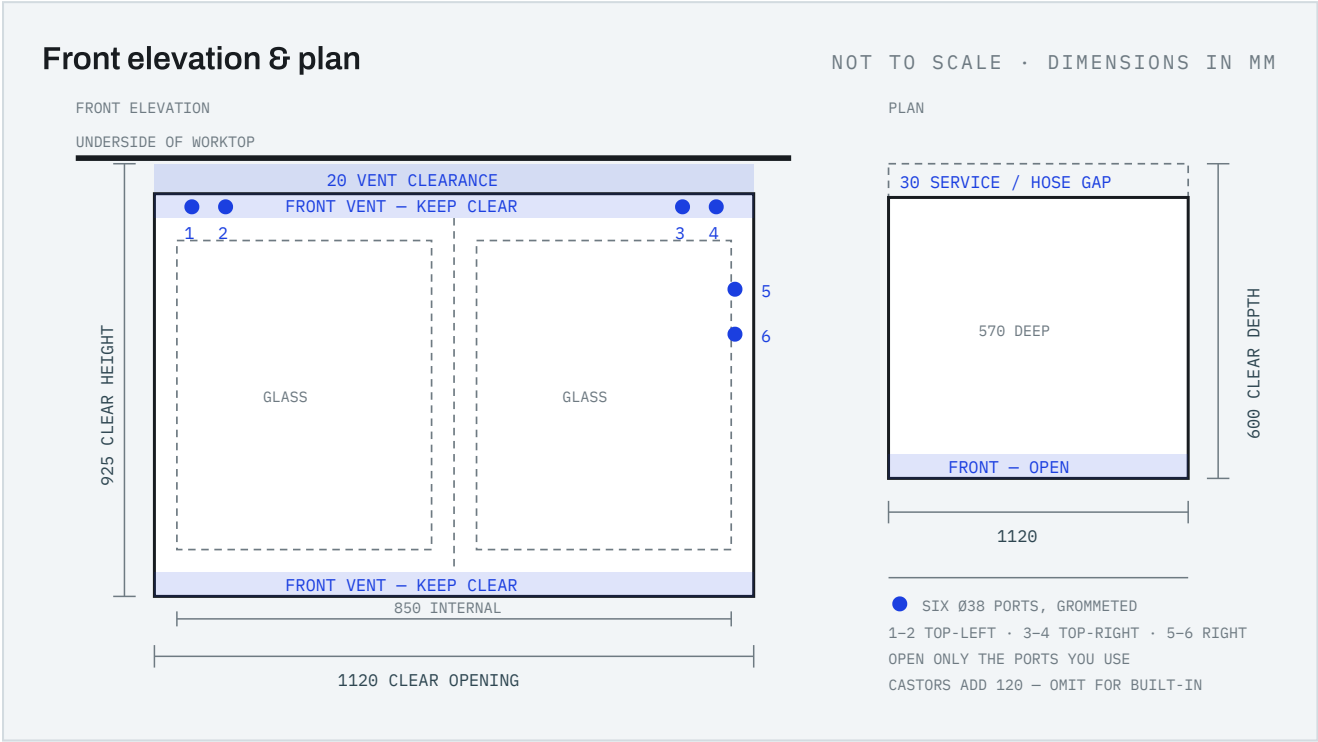
Two years, parts and labour, honoured here.

Osborne's own published warranty is two years on parts, with labour subject to their conditions of sale, and it is stated to apply in the United Kingdom. **Workflow honours two years parts and labour in the Republic of Ireland.** You report a fault to us, we attend or replace, and we deal with Osborne behind the scenes. Your contract is with us as the seller.

Opening a factory-fitted port does not affect cover. Drilling the cabinet yourself does.

Aperture — eCold 420ES.

Cabinet 1110 × 905 × 570 mm. Front-vented, so it can be enclosed on both sides and the back. The dimensions below are the **clear opening** in the joinery, not the cabinet.



GIVE THE JOINER THESE FOUR NUMBERS

CLEAR OPENING WIDTH	1,120 mm
CLEAR OPENING HEIGHT	925 mm
CLEAR DEPTH	600 mm
FRONT FACE	Fully open

WHERE THOSE NUMBERS COME FROM

The cabinet is 1110 × 905 × 570 mm. Osborne require **20 mm of clearance above** for the front-vented airflow, giving 925 mm. Workflow adds **10 mm on the width** and **30 mm on the depth** so a 90 kg cabinet can be slid in and back out for service without taking the joinery apart — and so the milk hoses and the plug have somewhere to sit behind it. Those two allowances are ours, not Osborne's; without them the cabinet still fits, but only once.

THE THREE THINGS THAT GO WRONG ON THIS APERTURE

Check these before the carcass is built.

01 · THE 20 MM IS NOT OPTIONAL

It is the return air path for a front-vented cabinet, not a fitting tolerance. Built tight to 905 mm the fridge runs hot and works permanently at full duty.

02 · CASTORS

Castors add 120 mm and will not fit any of this. Specify the cabinet **without castors** for a built-in position, and say so on the order.

03 · A PLINTH UNDER THE APERTURE

Joiners often set a 100 mm kickboard plinth and lose it from the opening. The 925 mm is clear internal height **from the floor the cabinet stands on**, not from finished floor level.

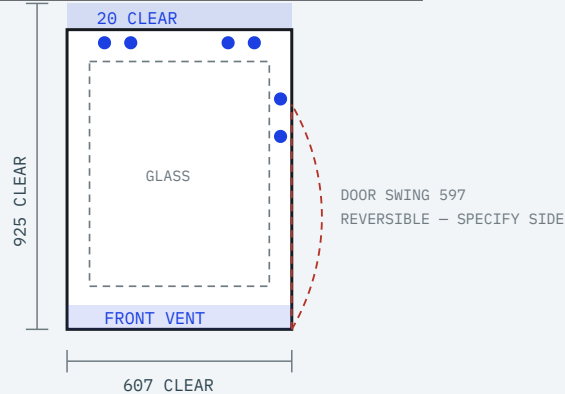
Aperture — 180ES and MM3M.

eCold 180ES — front elevation & plan

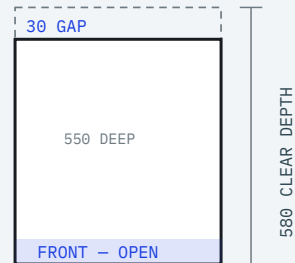
NOT TO SCALE • MM

FRONT ELEVATION

UNDERSIDE OF WORKTOP



PLAN

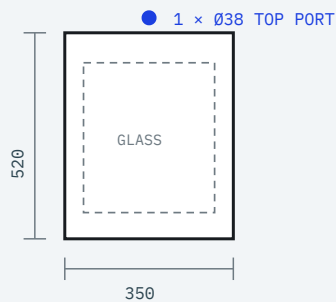


CABINET 597 × 905 × 550 • INTERNAL 515
HINGED ONLY — NO SLIDING OPTION
SIX Ø38 PORTS AS 420ES

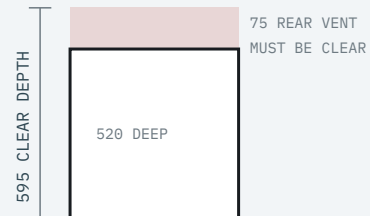
MM3M — front elevation & plan

NOT TO SCALE • MM

FRONT ELEVATION



PLAN



CABINET 350 × 520 × 520 • INTERNAL 270

The MM3M is rear-vented. The other two are not.

The 420ES and 180ES throw their heat out of the front, which is why they can be boxed in on three sides. **The MM3M throws it out of the back.** Build it into a tight cabinet with a closed back and it will run warm, work harder and eventually fail — and it will not be a warranty claim, because it will have been installed wrongly.

Allow at least **75 mm** behind it, and make sure that gap is open to the room rather than sealed into a void. If the MM3M is going on the counter rather than under it, this stops being an issue.

Why the counter cannot be 900 mm.

A domestic kitchen counter is 900 mm and most joiners will draw one at 900 mm unless told otherwise. An undercounter chiller with a pitcher rinser above it will not fit under 900 mm, and finding that out on install day means a new worktop.

1,020 mm. Measured, not calculated.

Taken from **Coffeeangel Shelbourne Road** — a 420ES with a recessed pitcher rinser above it, finished counter at **1,020 mm**, built this way and trading. Measured rather than summed from published minimums, which matters because those minimums conflict with one another and with what actually gets built.

THE TWO FIGURES TO BUILD TO

Chiller with a rinser above it	1,020 mm
Chiller only, no rinser	~960 mm
A standard kitchen counter	900 mm

1,020 mm as built at Shelbourne Road. 900 mm takes neither.

WHAT COMPETES FOR THE SPACE

Cabinet, no castors	905
Vent clearance above	20
Rinser, below the top surface	110
Worktop	30–40

Demands on the same zone — not terms to be added together.

Do not site the rinser directly over the chiller without checking

A rinser needing 110 mm below a 1,020 mm worktop puts its underside at **910 mm**. A 420ES needs everything above **925 mm** clear for ventilation. They do not both fit in the same vertical line. Offset the rinser along the run and check both positions on the same drawing.

DEFINE ONCE — AND GET THE DATUM RIGHT

Pitcher rinser cut-out

WHAT IT MEANS

A **193 × 380 mm** cut-out in the worktop with a **203 × 403 mm** flange sitting over it. Below it, allow **110 mm** — and measure that 110 mm **down from the top surface of the worktop**, not from its underside.

HOW TO CHECK

Put a straight edge on the finished worktop and measure down. If the joiner measures from the underside instead, a 30–40 mm worktop swallows the difference — and this stack has no 40 mm to give away.

TELL YOUR CONTRACTOR

"193 × 380 cut-out, 203 × 403 flange, 110 mm clear below the top surface of the worktop." Say *top surface* out loud — those two words prevent the whole problem.

Workflow's figures for a recessed rinser made specifically for us, not catalogue dimensions. Prefer a different size? **The Knock Drawer Co.** in Tallaght make them and you can buy direct.

And then there is the drain. The waste elbow lands at roughly 910 mm off the floor with a 1,110 mm-wide fridge below it, so it can neither sit on the floor nor fit down the back of the cabinet. Full detail in the **Site & Services Requirements**.

Matching the chiller to the Übermilk.

Two questions decide this: how much milk the bar goes through in a service, and how far the hose has to travel. The second one rules out more layouts than the first.

WHICH CABINET

CABINET	CAPACITY	TYPICAL BAR	ÜBERMILK
MM3M	23 L	Countertop, kiosk, second position, or a compact single-group bar	ONE · PB
eCold 180ES	129 L	One or two groups, under 200 milk drinks a day	ONE · PB
eCold 420ES	257 L	Two groups and up, 200+ milk drinks a day, full-shift cover	ONE · PB · PLUS

Capacity is about how often someone walks to the store room, not whether the machine works. A bar that restocks twice a service has bought the wrong cabinet, not a faulty one.

THE CONSTRAINT THAT GOVERNS SITING

The 1.8 m hose

WHAT IT MEANS

1.8 m is the total length of the milk hose — every millimetre of it, from the Übermilk's intake to the open end sitting in the milk. It is not a distance between two machines.

HOW TO CHECK

The hose has to reach **the bottom of the milk container**, not the top of the chiller. Most of the 1.8 m is spent going vertically down — through the port, down the cabinet, into the bottom of the pergal or bottle. Only what is left over is available to travel sideways.

TELL YOUR CONTRACTOR

The chiller goes **directly beneath the Übermilk, or immediately beside it**. Not along the back bar, not under the till, not on the other side of the run. If the drawing shows it more than about half a metre away, the drawing is wrong.

Working it through on a real bar

On a 1,020 mm counter with the Übermilk standing on it and a 420ES directly below, the hose runs from the machine's intake down through a top port, down the inside of the cabinet and into the base of a pergal standing on the cabinet floor. That vertical run alone is most of the 1.8 m. What is left is enough to offset the chiller by a few hundred millimetres — and no more.

This is why the six port positions matter. Two right, two top-left and two top-right means you can take the shortest possible line from wherever the Übermilk actually ends up standing, rather than the line the factory guessed at.

Technical specifications.

	eCold 420ES	eCold 180ES	MM3M
CAPACITY & DIMENSIONS			
CAPACITY	257 L	129 L net	23 L
MILK EQUIVALENT	Full-shift, multi-group	120 × 330 ml bottles (Osborne ref.)	3 × 3.4 L (6 pt) or 1 × 13.6 L pergal
CABINET W × H × D	1110 × 905 × 570 mm	597 × 905 × 550 mm	350 × 520 × 520 mm
INTERNAL WIDTH	850 mm	515 mm	270 mm
CLEAR OPENING REQUIRED	1120 × 925 × 600 mm	607 × 925 × 580 mm	See section 05 — rear vent
WEIGHT, PACKED	90 kg	48 kg	19 kg
SHELVES	3 per door + base	2 + base	1 + base tray
PERFORMANCE			
TEMPERATURE	+1 to +5 °C	+1 to +5 °C	+1 to +5 °C
DECLARED ANNUAL ENERGY *	831 kWh · class B	648 kWh · class B	454 kWh · class A
RATED POWER	120 W	100 W	65 W
REFRIGERANT	R600a · 90 g · GWP 3	R600a · 42 g · GWP 3	R600a · GWP 3
CLIMATE CLASS	4 — 30 °C / 50 % RH	4 — 30 °C / 50 % RH	4 — 30 °C / 50 % RH
VENTILATION	Front	Front	Rear — 75 mm clear
DOORS & PORTS			
DOOR	Sliding or hinged · glass	Hinged only · reversible	Glass · solid to order
GLAZING / LOCK	Double glazed · lockable	Double glazed · lockable	Double glazed
ÜBERMILK PORTS	6 × Ø38 — 2 right, 2 top-L, 2 top-R	6 × Ø38 — 2 right, 2 top-L, 2 top-R	1 × Ø38 — top
ELECTRICAL & SUPPLY			
SUPPLY	220–240 V · 50 Hz	220–240 V · 50 Hz	220–240 V · 50 Hz
CONNECTION	13 A socket	13 A socket	13 A socket
ORIGIN	Made in Britain · West Sussex	Made in Britain · West Sussex	Made in Britain · West Sussex
AVAILABILITY	Stock — Dublin	Stock — Dublin	Stock — Dublin
WARRANTY	2 yr parts & labour, Ireland	2 yr parts & labour, Ireland	2 yr parts & labour, Ireland

*** Declared annual energy.** Osborne's declaration under EU Regulation 2015/1094 at climate class 4, **for the solid-door version of each cabinet.** Osborne publish no declaration for the glass-door versions, which is what Workflow normally supplies — so treat these as declared figures for a related cabinet, not the consumption of the unit you are buying. We would rather say so than quote a number we cannot stand behind.

Do not include castors, which add 120 mm and are not specified for built-in installations. **420ES capacity:** Osborne's 2025 sheet gives 257 L, their 2023 leaflet and the energy label 290 L; 257 L is current and is the figure used here. Specifications per Osborne, subject to change. Correct at 10 August 2026.

Ordering, delivery & support.

AVAILABILITY

Workflow holds the Osborne range in stock in Dublin. You are not waiting on a factory build slot and you are not waiting on a sailing. Tell us the install date and we will work to it.

SPECIFY AT TIME OF ORDER

- **420ES** — sliding or hinged doors; finish
- **180ES** — which side the door hinges on
- **MM3M** — glass or solid door; where it is going, because rear clearance depends on it
- Castors or no castors — no castors for a built-in
- Which ports you intend to use, so we can talk through hose routing before it arrives

DELIVERY

Palletised, kerbside as standard. A 420ES is 90 kg packed and will not go up a flight of stairs on its own — tell us about access when you order, not on the day. In-place positioning available on request.

PRICING

Current pricing for all three cabinets and options is in the **Workflow Price List**, dated on its cover. All prices ex VAT.

WARRANTY

Two years parts and labour, honoured in Ireland by Workflow. Report the fault to us. Factory-fitted ports do not affect cover; drilling the cabinet yourself does. Excludes cosmetic damage and user-induced faults.

BEFORE YOU ORDER

Ask us for the **Site & Services Requirements** sheet for the cabinet you are buying, and give it to your joiner and electrician before the joinery is priced. It sets out the aperture, the clearances and the connections on one page.

See one in service

There is a 420ES under the counter at Coffeeangel Shelbourne Road, feeding an Übermilk, built to the dimensions in sections 05 and 06. Come and look at it before you commit a worktop to a drawing.



Enabling growth. Ensuring quality.

Osborne refrigeration, supported in Ireland.

Workflow supplies Osborne refrigeration in Ireland, operated by the Coffeeangel team — over 30 years of front-line experience delivering exceptional coffee at scale. We hold the range in stock in Dublin, we specify it against real bar drawings, and we honour the warranty here rather than pointing you at a factory in another jurisdiction.

EMAIL

hello@workflow.coffee

SERVICE

service@workflow.coffee

BOOK A CALL

calendly.com/workflow_coffee

Osborne Refrigerators · supplied in Ireland by Workflow, 3 Trinity Street, Dublin D02 H684
Specifications correct at 10 August 2026 and subject to change. No prices are given in this document — see the current Workflow Price List. All prices ex VAT.

Dimensions and requirements are given in good faith for planning purposes and are not a design service. Verify every figure against the machine actually supplied and against current building and electrical regulations before ordering materials or cutting joinery. Setting out, final design and build remain the responsibility of the customer and their contractors. Work marked “by others” is not within Workflow's supply.

Rev August 2026