

Chilly ApS

Industrial & Marine Refrigeration and HVAC



Offshore



Cruise



Merchant Marine



Food Processing



Cold Storage



Industrial Cooling

www.chilly.ac

WHO ARE WE?

ENGINEERING CONFIDENCE INTO COOLING

Chilly ApS is a Danish specialist in industrial refrigeration, HVAC, marine and offshore cooling. We combine engineering judgement with practical experience of equipment, operating plants and service conditions around the world.

20+ YEARS

OF GLOBAL REFRIGERATION EXPERIENCE

From machinery selection and controls to commissioning, fault diagnosis and long-term plant care, our focus is the same: a system that does the job reliably, safely and efficiently.



Multi-compressor refrigeration plant



Industrial package assembly

OUR COMMITMENT

“Customers need dependable cooling—not unnecessary complexity.”

We aim to be a trusted refrigeration partner: clear about technical choices, responsive when operations are at risk and practical about the total lifetime cost of a system.

UPTIME FIRST

Keep production and marine operations running with serviceable designs, preventive work and realistic contingency planning.

INDEPENDENT ADVICE

Choose technology for the application, not loyalty to a single manufacturer.

RESPONSIBLE ENGINEERING

Assess efficiency, environmental impact, safety and operating costs together.

CLEAR COMMUNICATION

Transparent scopes, disciplined follow-up and straightforward technical recommendations.

SERVICES THROUGHOUT THE LIFECYCLE

One point of contact across the main refrigeration lifecycle—from the first technical question to repair, optimisation or replacement.

CONSULTANCY

Plant audits, load assessment, technical advice, specifications and scope definition.

DESIGN & SUPPLY

Refrigeration engineering, equipment selection, controls and procurement.

INSTALLATION

Installation support, integration, testing, start-up and commissioning.

SERVICE CONTRACTS

Scheduled inspection programmes and maintenance tailored to critical plant duty.

RETROFITTING

Upgrade existing plant, controls or refrigerant strategy with practical transition planning.

PARTS & OVERHAUL

Compressor maintenance, spare-parts sourcing, diagnostics and specialist repairs.

ENGINEERING & EQUIPMENT SELECTION



Industrial compression equipment



Industrial chiller installation

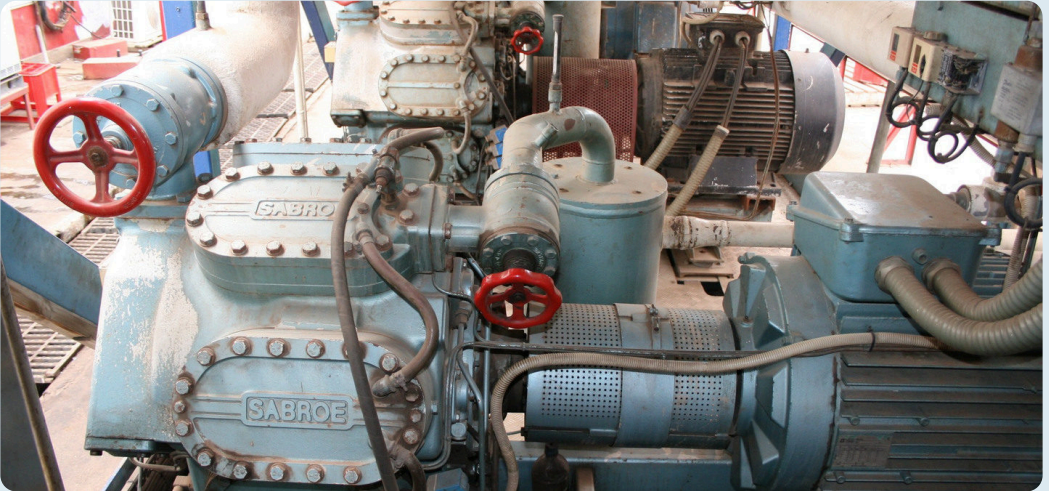
Our engineering work begins with the duty: product temperature, cooling load, ambient conditions, allowable downtime, site access and operational demands. We then align the refrigeration concept with the mechanical and electrical infrastructure.

DESIGN PRIORITIES

Correct capacity and part-load behaviour; access for maintenance; safe controls and protection; integration of compressors, vessels, condensers, evaporators, pumps and piping; realistic operating cost.

Equipment should remain serviceable and widely supported worldwide.

INSTALLATION & COMMISSIONING



Delivering a functional plant takes more than assembling equipment. We coordinate technical interfaces, support on-site execution, verify mechanical and control functions and work toward a practical handover for operators and maintenance personnel.

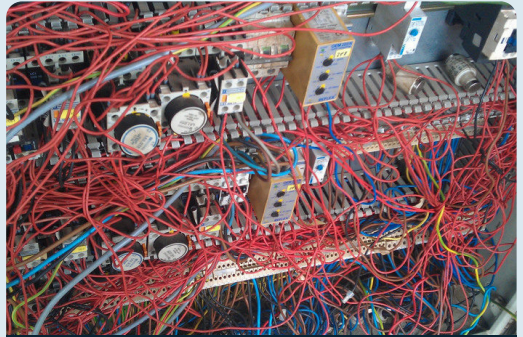
FROM SITE TO HANDOVER

Installation planning, equipment positioning, pipework interfaces, functional testing, controls verification, operator familiarisation and commissioning support.

RETROFITTING & ENERGY PERFORMANCE



Existing electrical control panel



Legacy panel assessment

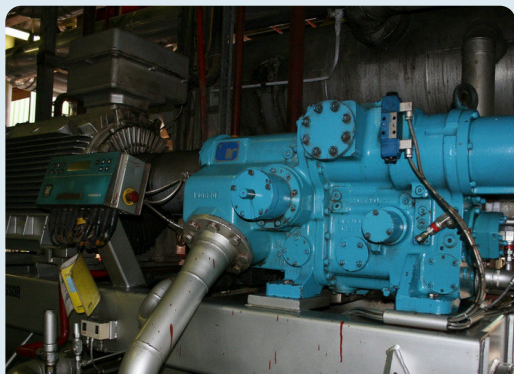
Retrofitting upgrades an existing refrigeration plant while preserving useful infrastructure. That may mean new controls, more efficient machinery, capacity changes or conversion to a lower-impact refrigerant where technically viable and compliant.

PLAN THE TRANSITION

Evaluate refrigerant compatibility, pressure ratings, compressor and seal suitability, oil, heat exchangers, valves, controls, safety systems, availability of parts and production downtime before selecting a retrofit route.

Energy improvement is assessed against actual running data, not theoretical efficiency alone.

COMPRESSORS & OVERHAUL



Industrial screw-compressor package



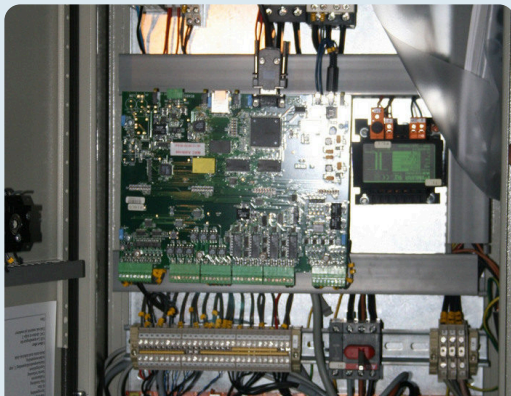
Vilter workshop assembly

Chilly works with the key mechanical and control issues around screw and reciprocating compressors, including capacity regulation, oil systems, lubrication, sealing, alignment, vibration, interlocks and performance.

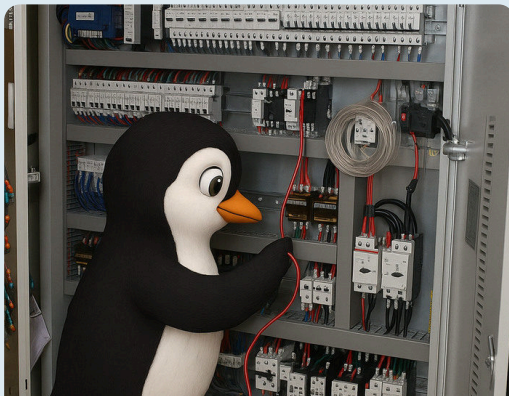
OVERHAUL SUPPORT

Condition checks, fault finding, inspection planning, replacement parts, workshop coordination, reassembly considerations and return-to-service support—matched to the manufacturer and the plant's duty.

CONTROLS & AUTOMATION



Refrigeration controller electronics



Control-panel installation

Reliable cooling depends on coordinated controls as well as mechanical equipment. We support plant monitoring, alarms, sequencing, interlocks, temperature regulation and troubleshooting of existing control systems.

CONTROL SYSTEM SUPPORT

Controller and PLC upgrades; compressor capacity sequencing; instrumentation checks; pressure and temperature measurement; alarm diagnostics; safety interlocks; defrost functions; commissioning and functional verification.

MAINTENANCE & SERVICE CONTRACTS



Cold-room equipment



BITZER condensing unit

Scheduled service helps prevent unplanned stoppages and makes maintenance costs easier to manage. Chilly offers service contracts tailored to the equipment, site access, safety requirements and consequences of downtime.

WHAT A CONTRACT CAN INCLUDE

Planned inspection visits; checks of operating conditions and safety devices; leak and oil-system reviews; filter and consumable planning; control and sensor checks; trend monitoring; repair recommendations and agreed service reporting.

Response arrangements and coverage are agreed for each contract.

R717, DIAGNOSTICS & PLANT CONDITION



Ammonia (R717) and other industrial refrigeration systems depend on clean refrigerant circuits, sound components and stable operating conditions. Moisture, air, dirt, oil issues or poor control may raise energy demand and reduce reliability.

SPECIALIST ASSESSMENTS

R717 air and dirt removal, oil analysis, vibration and alignment assessments, thermal inspection, pressure and temperature instrumentation, refrigerant-system troubleshooting and recommendations for corrective work.

All refrigerant interventions follow applicable safety and handling requirements.

PARTS & MULTI-BRAND EQUIPMENT

We select refrigeration components and replacement parts according to operating duty, compatibility, availability and long-term serviceability. Our multi-brand experience supports practical sourcing and support for both current and legacy installations.

EQUIPMENT & COMPONENT EXPERIENCE

SABROE	YORK	FRICK	STAL
GRAM	VILTER	GEA GRASSO	BITZER
DAIKIN	HAIER	CARRIER	DANFOSS
HOWDEN	MYCOM	J&E HALL	ALFA LAVAL
SWEP	WITT	HERMETIC	SIEMENS

SPARE PARTS / VALVES / INLINE COMPONENTS



Genuine components. Appropriate specification. Global sourcing.

INDUSTRIES & APPLICATIONS

Cooling supports production, handling and storage across many sectors. From chilled process water to large ammonia plants, we select equipment for the duty, operating conditions and technical support available locally.

FOOD & BEVERAGE

Breweries, dairy production, slaughterhouses, airline catering and processing facilities.

COLD STORAGE

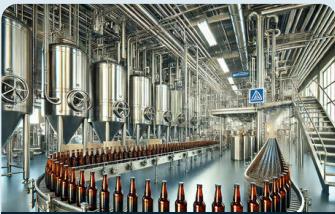
Harbour cold stores, chilled and frozen warehouses, refrigerated logistics and cold rooms.

INDUSTRIAL HVAC

Chillers, factories, heat-rejection equipment, comfort cooling and production utilities.

MARINE & OFFSHORE

Fishing vessels, cruise liners, merchant ships, tugs, passenger vessels and offshore drilling.



BEVERAGES



DAIRY



MEAT PROCESSING

FOOD PRODUCTION & COLD CHAIN



Industrial process cooling utilities



Food-production machinery and plant

For food factories and cold stores, refrigeration protects product quality, throughput and shelf life. Engineering priorities include temperature stability, airflow, product loads, hygiene, defrost, operator access and efficient running across variable production demand.

APPLICATION EXPERIENCE

Beverages and dairy processing; meat and poultry production; airport catering facilities; frozen and chilled warehousing; harbour cold stores; industrial food handling; refrigerated distribution.

Reliable cooling from processing to storage and dispatch.

MARINE & FISHING VESSELS



SHIPBOARD COOLING

Industrial and commercial marine refrigeration supports cruise and passenger ships, merchant vessels, tugboats, offshore vessels and livestock carriers. Applications range from stores and chilled water to machinery and comfort cooling.

FISHING VESSELS: ENGINEERING IN LIMITED SPACE

Large commercial fishing vessels require process cooling and storage refrigeration in exceptionally confined machinery spaces. Access restrictions affect equipment dimensions, piping routes, ventilation, compressor overhaul and future maintenance. Technical solutions must balance reliability with practical serviceability at sea.

OFFSHORE, HVAC & PROCESS COOLING



Chilled-water / chiller plant



Beverage plant cooling - PepsiCo, Kuwait

Industrial HVAC and process cooling support factories, production equipment, demanding ambient environments and offshore operations. Performance depends on the full system—not just the chiller—including pumps, condensers, heat exchangers, distribution, air handling and controls.

ENGINEERING FOR THE ENVIRONMENT

Applications may involve aggressive marine atmospheres, very high ambient temperatures, restricted space, dusty industrial conditions or demanding operating hours. Equipment and service methods are selected for the actual site.

TEMA FISHING HARBOUR

4,000-TONNE COLD-STORE INSTALLATION / GHANA



At Tema Fishing Harbour, the project scope covered supply and installation of insulated panels and the complete industrial refrigeration system, using ammonia (NH₃ / R717) as refrigerant. Steelwork and concrete construction were delivered by another contractor.

Large-capacity ammonia refrigeration demands careful attention to plant access, refrigeration distribution, pressure protection, controls, leak management and ongoing serviceability. Reliable operation depends on both the refrigeration machinery and the insulated cold-store envelope.

R717 REFRIGERATION

Industrial ammonia cooling plant

INSULATED ENVELOPE

Panels and thermal performance

PROJECT INTERFACES

Coordination across contractors

PROCESS REFRIGERATION IN ACTION



Beverage bottling plant, Kisumu



Industrial process plant, Kuwait City

Process refrigeration integrates the cooling plant with production equipment, product requirements, production schedules and site utilities. Beverage systems are a good example: stable temperature control must be combined with reliable machinery, effective commissioning and predictable maintenance access.

Engineering experience in Africa and the Middle East informs our understanding of demanding operating conditions, lead times and practical service solutions.

OUR GLOBAL SERVICE NETWORK

Based in Denmark, with technical and commercial experience spanning Europe, Asia, Africa, North, Central and South America, and the Middle East. We approach projects with an understanding of local conditions, lead times and service requirements. Our global network supports installations, service and compressor overhauls.



COLLABORATION & SUPPORT LOCATIONS

- ✓ Denmark
- ✓ USA / Florida
- ✓ Canada / Ontario
- ✓ Mexico / Mérida, Yucatán
- ✓ Brazil / Santos
- ✓ Chile / Valparaíso
- ✓ Ghana / Tema
- ✓ Uganda / Kampala
- ✓ Kenya / Nairobi
- ✓ Kenya / Mombasa
- ✓ Lebanon / Beirut
- ✓ India / Kerala
- ✓ China / Beijing

Connected specialists - scope and availability confirmed per assignment.

LET'S KEEP YOUR OPERATIONS CHILLY



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INDUSTRIAL REFRIGERATION / HVAC / MARINE / OFFSHORE