

IHP Alliance Buyer-Supplier Connect Sessions

Participating Suppliers

This packet contains information about participating suppliers for the upcoming IHP Alliance Connect Sessions on April 23 and 24, 2025. The information and language that follows was directly provided by the suppliers. Suppliers include IHP manufacturers, distributors, financing providers, and consultants or service providers with related offerings. If you have any questions about this event, please reach out to Ruth Checknoff at ruth@dgardiner.com, Oren Lieber-Kotz at oren@dgardiner.com, and Steve Griffith at steve.griffith@nema.org.

Please use [this form](#) to select companies to meet with for the April 23 and 24 virtual sessions.

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Armstrong International

Available for April 23:

Yes

Available for April 24:

Yes

Participating staff:

Rajkumar Gnanaraj, rkumar@armstronginternational.com; Kyle Higginbotham, khigginbotham@armstronginternational.com; Peter DeWitt, pdewitt@armstronginternational.com

Potential role in a heat pump project:

Armstrong International has a full line of water sourced heat pumps that can produce hot water or steam up to 248°F (120°C). Additionally, Armstrong has the ability to study your facility and find waste heat sources and sinks. This is an important step to confirm the viability of the heat pump and see if there is direct waste heat recovery available. Lastly, Armstrong can provide turnkey or project management services to guarantee the performance of the heat pump and installation.

Geographic scope:

Global

Best fit for:

Food & Beverage, Consumer Goods, Pharmaceuticals & Biotechnology, Institutional & Government

Heat pump temperature range:

Source of -8°C (18°F) and Sink up to 120°C (248°F)

Heat pump size range:

2,000 kW

Heat sources:

Any source is available to use from air, sewer, geothermal, and waste heat from process.

Experience with heat pump projects:

We have completed more than 100 projects ranging from HVAC systems, domestic hot water, district heating, to processing chocolate.

Website:

<https://armstronginternational.com>

Additional links or information:

<https://armstronginternational.com/products-landing/heat-pump-packages>

AtmosZero

Available for April 23:

Yes

Available for April 24:

Yes

Participating staff:

Nick Roberts, nickolas@atmoszero.energy; Chris Fraughton, chris.fraughton@atmoszero.energy

Potential role in a heat pump project:

OEM - building modular steam heat pumps.

Geographic scope:

North America and Europe

Best fit for:

Food & Beverage, Consumer Goods, Technology, Pharmaceuticals & Biotechnology, Textiles & Apparel

Heat pump temperature range:

-20°C to 165°C

Heat pump size range:

650KW - 1MW

Heat sources:

Air

Experience with heat pump projects:

We are developing at New Belgium Brewery and have many more projects in the pipeline negotiation scope and commercial agreements.

Website:

<https://atmoszero.energy/>

Additional links or information:

N/A

Danfoss

Available for April 23:

Yes

Available for April 24:

Yes

Participating staff:

Stephen Hamlin, stephen.hamlin@danfoss.com

Potential role in a heat pump project:

Danfoss designs the components for heat pumps. Compressors, sensors, and partners with OEMs through TurboCore. Danfoss also develops the solutions for heat pump use and the best viable options for implementation.

Geographic scope:

United States, Canada, France, Germany, UK, Poland, Middle East, Asia, almost all regions and countries.

Best fit for:

Automotive, Food & Beverage, Consumer Goods, Technology, Pharmaceuticals & Biotechnology, Heavy Industry & Materials, Textiles & Apparel, Institutional & Government

Heat pump temperature range:

All temperatures up to low grade steam.

Heat pump size range:

All ranges. Mainly for Industry and large-scale applications. Apartments, hospitals, business centers, you name it, we design it.

Heat sources:

Air, water, ground source, waste heat, reclaimed heat. If there is a base source, we can utilize this for a heat pump.

Experience with heat pump projects:

Several completed heat pump projects. 345 Hudson with Energy Machines, Sondeburg Hospital, several other case studies completed.

Website:

<https://www.danfoss.com/en/>

Additional links or information:

<https://www.danfoss.com/en/markets/buildings-commercial/dcs/heat-pumps/#tab-overview>

Echogen Power Systems

Available for April 23:

Yes

Available for April 24:

Yes

Participating staff:

Rob Bernard, rbernard@echogen.com; Phil Brennan, pbrennan@echogen.com; Timothy Held, theld@echogen.com

Potential role in a heat pump project:

Echogen is a technology development company. We are presently developing two heat pump systems using CO₂, one for high temperature process heating and one for medium pressure steam generation.

Geographic scope:

We are sited in North America, and open to global opportunities.

Best fit for:

Food & Beverage, Heavy Industry & Materials

Heat pump temperature range:

For process heating, up to 400°C, and up to 20 bar steam generation

Heat pump size range:

1000+ kW

Heat sources:

Air, water, waste heat

Experience with heat pump projects:

We are presently at a TRL=4 for both heat pump systems.

Website:

<https://www.echogen.com>

Additional links or information:

Detailed technical information available upon request.

Energy Integration Inc.

Available for April 23:

Yes

Available for April 24:

Yes

Participating staff:

Zach Schafer, zschafer@energyintegrationinc.com; William Schafer, bill@energyintegrationinc.com

Potential role in a heat pump project:

We assess the feasibility, technical and economic, of applying our integrated heat pump technology for industrial processes, and we license the technology to customers for application to their operations. Our novel system design integrates to optimize across existing processes and avoid optimizing a single process at the expense of the total process design. We have two commercial systems operating in Europe's largest biorefinery and a large number of system installations in development.

Geographic scope:

U.S.A., Canada, E.U., South Africa, Brazil, India, China

Best fit for:

Food & Beverage, Heavy Industry & Materials

Heat pump temperature range:

We design systems using commercially available blowers and compressors. Our systems currently accommodate temperatures up to 230°C.

Heat pump size range:

Systems with up to 6MW shaft power

Heat sources:

Waste heat

Experience with heat pump projects:

We have installed two commercial systems at Pannonia Bio that have operated for more than four years and received the IChemE Energy Award in 2021. We have projects ranging from designed with equipment ordered to projects funded awaiting initiation.

Website:

<http://www.energyintegrationinc.com>

Additional links or information:

<https://ethanolproducer.com/articles/stretching-out-steam>

<https://ethanolproducer.com/articles/an-optimal-blend-of-stories>

<https://ethanolproducer.com/articles/replicating-success>

GEA

Available for April 23:

Yes

Available for April 24:

Yes

Participating staff:

German Robledo, german.robledo@gea.com; Simon Keller, simon.keller@gea.com

Potential role in a heat pump project:

Manufacturer, Provider, Consulting, Holistic Solution

Geographic scope:

Global

Best fit for:

Automotive, Food & Beverage, Consumer Goods, Technology, Pharmaceuticals & Biotechnology, Heavy Industry & Materials, Textiles & Apparel, Institutional & Government, Air Carbon Capture Technologies, EV Battery Manufacturer, District Heating, Wastewater Treatments, Chemical, Oil & Gas

Heat pump temperature range:

95°C with ammonia, but coupled with MVR or other technologies, we can provide steam solutions, finishing developing other solutions with other refrigerants to make steam.

Heat pump size range:

Starting from 500kW up to any size or capacity

Heat sources:

Any source, any source will dictate it that becomes a single stage or multiple stage

Experience with heat pump projects:

We have sold over 200 plus heat pumps in Europe and over 8 in North America, due to NDAs many customers do not want us to share info, we can share some general aspects but not full detail customer name, locations, etc.

Website:

<https://www.gea.com/en/products/heat-pumps/>

Additional links or information:

N/A

Generate Capital

Available for April 23:

Yes

Available for April 24:

Yes

Participating staff:

Charlie Daum, charlie.daum@generatecapital.com; Fiona Dearth, fiona.dearth@generatecapital.com

Potential role in a heat pump project:

Generate identifies, develops, funds, and implements a wide range of resource efficiency and decarbonization technologies, including IHPs. We are technology agnostic and are open to working with our customers' preferred vendors and engineering partners. We can support projects at any stage - from investment grade audit to late-stage design/engineering. Generate uses an energy-as-a-service approach to provide performance and savings guarantees without requiring upfront capital from our customers.

Geographic scope:

North America and Europe

Best fit for:

Automotive, Food & Beverage, Consumer Goods, Technology, Pharmaceuticals & Biotechnology, Heavy Industry & Materials

Heat pump temperature range:

We typically look for waste streams with temperatures ~80 to 90°F to produce 180°F water temperatures. However, we have also evaluated heat pumps that provide cooling at 45°F on the low side and provide heat for process at 140°F on the high side. We have developed heat pump projects that generate steam at greater than 100 psi with Mechanical Vapor Recompression (MVR) turbines or 2 stage systems.

Heat pump size range:

5 to 15 MMBTH

Heat sources:

We have implemented projects that use ammonia from cooling systems and process waste water. We can support projects for air and waste heat sources as well.

Experience with heat pump projects:

We have one large industrial heat pump project in construction. We are in advanced development at four other manufacturing sites.

Website:

<https://generatecapital.com/>

Additional links or information:

We can share anonymized case studies upon request.

Johnson Controls

Available for April 23:

Yes

Available for April 24:

Yes

Participating staff:

Micah Lehman, micah.lehman@jci.com

Potential role in a heat pump project:

Manufacturing

Geographic scope:

North and South America and Europe

Best fit for:

Food & Beverage

Heat pump temperature range:

126-205°F

Heat pump size range:

200 – 12401 kW

Heat sources:

Vapor from refrigeration compressor, waste heated water from refrigeration system

Experience with heat pump projects:

2 U.S. projects in industrial refrigeration industry. Plant required simultaneous heating and cooling for industrial food processing. Many European projects with a variety of applications including district heating.

Website:

<https://frick.staginglive.jci.com/>

Additional links or information:

<https://frick.staginglive.jci.com/products-and-solutions/heat-pumps>

<https://www.sabroe.com/products-and-solutions/industrial-heat-pumps>

Karman Industries

Available for April 23:

Yes

Available for April 24:

Yes

Participating staff:

Willem Landman, willem@karmanindustries.com; CJ Kalra, cj@karmanindustries.com; David Tearse, david@karmanindustries.com

Potential role in a heat pump project:

We are an MVR heat pump OEM with a high performance heat pump with increased performance at a fraction of the cost and size.

Geographic scope:

USA, Europe, Asia, India

Best fit for:

Automotive, Food & Beverage, Consumer Goods, Technology, Pharmaceuticals & Biotechnology, Heavy Industry & Materials, Textiles & Apparel

Heat pump temperature range:

60°C - 300°C

Heat pump size range:

1000-60000 kW

Heat sources:

Waste heat, air, water, ground

Experience with heat pump projects:

We have the first demo coming online at our facility in early June.

Website:

<https://karmanindustries.com>

Additional links or information:

We can provide case studies to interested parties.

Kyotherm

Available for April 23:

No

Available for April 24:

Yes

Participating staff:

Elise Heath, elise.heath@kyotherm.com

Potential role in a heat pump project:

Kyotherm provides turnkey and off-balance sheet financing for renewable heat and energy efficiency projects, including heat pumps, to clients in the industrial and commercial sectors, as well as public authorities.

Geographic scope:

Global

Best fit for:

N/A

Heat pump temperature range:

N/A

Heat pump size range:

N/A

Heat sources:

All

Experience with heat pump projects:

Kyotherm has financed and owns multiple water and ground source heat pumps in Germany and in the UK (total installed capacity of 40 MW).

Website:

<https://kyotherm.com/en/about-us/>

Additional links or information:

N/A

Modern Thermal Design

Available for April 23:

Yes

Available for April 24:

Yes

Participating staff:

Perry Johnson, perry@modernthermaldesign.com; Don Frank, don@solaruvsolutions.com

Potential role in a heat pump project:

Sales, design, proposal and project management.

Geographic scope:

United States, Canada, Mexico, Caribbean +

Best fit for:

Automotive, Food & Beverage, Consumer Goods, Technology, Pharmaceuticals & Biotechnology, Heavy Industry & Materials, Textiles & Apparel, Institutional & Government, All Industries

Heat pump temperature range:

-5°F to 140°F

Heat pump size range:

0.5 kW to 500 kW

Heat sources:

Air, water, ground & waste heat

Experience with heat pump projects:

Completed projects: Popeyes, Homewood Suites, Best Western & Motel 6. Others in development/quoting process.

Website:

<https://ModernThermalDesign.com>

Additional links or information:

We offer several USA brands, UK and Finland models.

Nyle Systems LLC

Available for April 23:

Yes

Available for April 24:

Yes

Participating staff:

Jake Keniston, jkeniston@nyle.com; Elmer Arbogast, earbogast@nyle.com; Antonius Mathissen, amathissen@nyle.com

Potential role in a heat pump project:

Nyle is a manufacturer of heat pumps. Applications: potable & process water heating (commercial / industrial scale); industrial drying solutions, food and lumber applications but can consider other verticals too; industrial energy recovery, buildings and processes.

Our role in the project can include: thermal audit / project identification; application engineering; equipment supplier (installation by others, typically contractor local to customer); start-up; LT service and support.

Geographic scope:

US + Canada is 80% of business but we have customers around the world.

Best fit for:

Automotive, Food & Beverage, Consumer Goods, Pharmaceuticals & Biotechnology, Textiles & Apparel, Institutional & Government

Heat pump temperature range:

Our current Heat Pumps can provide up to 180°F. Currently developing up to 240°F.

Heat pump size range:

Our units go up to 400kW and are modular, i.e., we add units to go to larger capacities.

Heat sources:

Water source and air source

Experience with heat pump projects:

Nyle has been in business since 1977. We ship approximately 600 heat pumps per year.

Website:

<https://nylethermal.com/>

Additional links or information:

<https://nyle.com/>

<https://heatwater.com/>

<https://nylethermal.com/>

<https://nyledehydrators.com/>

<https://nyledrykilns.com/>

Piller TSC Blower Corp

Available for April 23:

Yes

Available for April 24:

Yes

Participating staff:

Patrick Reiss, patrick.reiss@piller.de; Caldwell Reed, caldwell.reed@piller.de

Potential role in a heat pump project:

Heat pump manufacturing, heat pump system design and sizing, heat pump project supervision, heat pump servicing

Geographic scope:

Global

Best fit for:

Automotive, Food & Beverage, Consumer Goods, Technology, Pharmaceuticals & Biotechnology, Heavy Industry & Materials, Textiles & Apparel

Heat pump temperature range:

Min 50°C and max 230°C

Heat pump size range:

Compressor capacity 37kW to 160kW that can be connected in series for higher capacity

Heat sources:

Cooling tower water, exhaust from fryers, dryer exhaust, vapor from distillation columns, evaporators, paper machines, hot water heat pump condenser flow, etc.

Experience with heat pump projects:

Many completed heat pump projects. Mechanical vapor recompression (MVR) technology to recover thermal energy from the whisky distillation process, MVR for potato fryers, MVR for paper machine drying, MVR for ethanol production.

Website:

<https://www.piller.de/>

Additional links or information:

<https://www.piller.de/industrial-heat-pump/>

<https://www.renewablethermal.org/piller-chivas-case-study/>

<https://www.piller.de/fileadmin/media/pdf-files/product-sheets/vapor-compression-heat-pump-technology.pdf>

Schneider Electric

Available for April 23:

Yes

Available for April 24:

Yes

Participating staff:

David Phillippe, david.phillippe@se.com; Kathleen Pratt, kathleen.pratt@se.com; Pawan Gogna, pawan.gogna@se.com; David Kramer, david.kramer@se.com

Potential role in a heat pump project:

Schneider Electric would be your design/build partner to develop turnkey solutions utilizing IHPs, oversee installation, and if needed provide a performance guarantee. We are able to work within a traditional Capex process or 'as-a-service' which can be structured to be fully off-balance sheet. Our in-house team brings both the commercial and technical expertise necessary to build a programmatic framework to deploy IHP solutions at scale and pace across a customer's facility portfolio.

Geographic scope:

North America (particular focus in USA). Global counterparts able to support with Europe and APAC as well.

Best fit for:

Food & Beverage, Consumer Goods, Pharmaceuticals & Biotechnology, Textiles & Apparel, Institutional & Government

Heat pump temperature range:

There are several types of industrial heat pumps that can offer maximum temperatures from 180°F to 300°F and produce hot water or low pressure steam. We are manufacturer agnostic and look for the best unit to fit the need.

Heat pump size range:

The only limits in heat pump size would be related to what is available in the market place.

Heat sources:

We typically see air source, water source, and ammonia being the most ideal heat sources for heat pumps.

Experience with heat pump projects:

Yes, we have an IHP project for a large brewery currently in installation. It will be completed in the next 4-6 months. We also have several additional heat pump projects in development, with significant outside grant and tax credit funding secured.

Website:

<https://www.se.com/us/en/work/services/sustainability-business/energy-management-sustainability-services.jsp>

Skyven Technologies

Available for April 23:

Yes

Available for April 24:

Yes

Participating staff:

Juliette Strasser, juliette.strasser@skyven.co; Chris Barnhill, chris.barnhill@skyven.co

Potential role in a heat pump project:

Skyven Technologies decarbonizes hard-to-abate industries by recovering waste heat to produce clean, emissions-free steam using their Arcturus steam generating heat pump. Skyven's proven Energy-as-a-Service model allows industrial manufacturers to achieve significant carbon footprint reductions without the upfront capital expenditure, leading to profitable decarbonization. Skyven monitors carbon emissions in real time and shares the savings from the emissions-free steam delivered by our systems.

Geographic scope:

North America, South America, Europe, Asia

Best fit for:

Food & Beverage, Heavy Industry & Materials, Textiles & Apparel, Pulp & Paper, Ethanol, Chemicals

Heat pump temperature range:

As high as 420°F / 215°C

Heat pump size range:

N/A

Heat sources:

Waste heat

Experience with heat pump projects:

We have multiple projects in feasibility now, with planned operation next year. We will complete our demonstration center in Q2 2025.

Website:

<https://skyven.co/>

Additional links or information:

<https://skyven.co/arcturus/>

Thermal Energy International

Available for April 23:

Yes

Available for April 24:

Yes

Participating staff:

Robert Triebe, robert.triebe@thermalenergy.com; David Coletta, david.coletta@thermalenergy.com

Potential role in a heat pump project:

TEI delivers turnkey solutions that integrate heat recovery with heat pumps to improve system efficiency and reduce costs. By capturing thermal energy from exhaust and raising the source temperature, we enhance the heat pump's COP, reduce its size, and lower infrastructure costs. Our expertise ensures maximum savings, stable output temperatures, and optimized performance across the system. From concept to commissioning, TEI delivers fully scoped and optimized heat recovery + HP projects.

Geographic scope:

Global

Best fit for:

Food & Beverage, Consumer Goods, Pharmaceuticals & Biotechnology, Textiles & Apparel, Institutional & Government

Heat pump temperature range:

We partner with heat pump OEMs and so this is dependent upon market availability.

Heat pump size range:

All sizes

Heat sources:

Boiler Exhaust; Dryer Exhaust

Experience with heat pump projects:

TEI has completed dozens of heat pump project feasibility studies for industrial partners and has been awarded and are currently executing 2 turn key heat pump projects at industrial sites in the USA.

Website:

<https://www.thermalenergy.com/>

Additional links or information:

N/A

Thermon, Inc.

Available for April 23:
Yes

Available for April 24:
Yes

Participating staff:

Jay Hahn, jay.hahn@thermon.com; Taylor Cavins, taylor.cavins@thermon.com

Potential role in a heat pump project:

We are an ancillary product and working with integrated IHP manufacturers. We offer e-boilers for peak heat demand alongside IHP, however, are looking to acquire the technology to support and manufacture equipment for this technology.

Geographic scope:
Global

Best fit for:

Automotive, Food & Beverage, Technology, Pharmaceuticals & Biotechnology, Heavy Industry & Materials, Textiles & Apparel

Heat pump temperature range:
N/A

Heat pump size range:
N/A

Heat sources:
N/A

Experience with heat pump projects:
Supporting ancillary heating on multiple high profile projects (under NDA).

Website:
<https://www.thermon.com>

Additional links or information:
N/A

Trane Technologies

Available for April 23:
Yes

Available for April 24:
Yes

Participating staff:
Mike Filler, mike.filler@tranetechnologies.com

Potential role in a heat pump project:

Trane Technologies is a global climate innovator. Through our strategic brands Trane® and Thermo King®, and our portfolio of environmentally responsible products and services, we bring efficient and sustainable climate solutions to buildings, homes and transportation.

Geographic scope:
Global

Best fit for:

Automotive, Food & Beverage, Consumer Goods, Technology, Pharmaceuticals & Biotechnology, Heavy Industry & Materials, Textiles & Apparel, Institutional & Government

Heat pump temperature range:

We have mid-size units capable of roughly 250°F water max. Our largest units are currently making up to 180°F water.

Heat pump size range:

10 to 10,000 kW per unit - multiple 10,000 kW units can be used for larger projects

Heat sources:

Air- or hydronic- source, which includes ground-source, waste heat and thermal storage

Experience with heat pump projects:

We've completed many heat pump projects for commercial buildings - it's already a significant portion of our business. We have been developing more mid-size and larger scale heat pump products & systems that can be applied to industrial applications.

Website:
<https://www.tranetechnologies.com>

Additional links or information:
<https://www.trane.com/commercial/north-america/us/en/products-systems/heat-pumps.html>

Trio

Available for April 23:

Yes

Available for April 24:

Yes

Participating staff:

Bill Bach, bill.bach@trioadvisory.com; Kevin Nelsen, kevin.nelsen@trioadvisory.com

Potential role in a heat pump project:

Programmatic support, feasibility, and evaluation of energy efficiency and waste heat recovery applications in industrial and manufacturing applications. Additional support on sustainability consulting, reporting, conventional energy procurement, and renewable power procurement in local markets.

Geographic scope:

Globally for remote support. On-site support provided directly in US/CAN, and some European countries. Others on a case by case basis.

Best fit for:

N/A

Heat pump temperature range:

N/A

Heat pump size range:

Any

Heat sources:

N/A

Experience with heat pump projects:

Provided conceptual and programmatic approaches to industrial heat pumps in automotive, medical device, and pharmaceutical applications.

Website:

<https://trioadvisory.com>

Additional links or information:

N/A

Turboden SpA

Available for April 23:

No

Available for April 24:

Yes

Participating staff:

Davide Rizzi, davide.rizzi@turboden.it

Potential role in a heat pump project:

Turboden's LHP lead the way in developing complex, customized solutions to meet the unique requirements of projects. Thanks to the expertise of Turboden's engineers and ongoing research in the field, our innovative heating solutions can efficiently operate at large-scale thermal outputs (starting from 5 MWth) and high temperatures (exceeding 200°C), including steam generation. The MVR technology finds its application either as a bottom technology for large scale heat pumps or stand alone.

Geographic scope:

Global, with focus on EU and North America

Best fit for:

Food & Beverage, Pharmaceuticals & Biotechnology, Heavy Industry & Materials, Textiles & Apparel, Pulp & Paper, Chemical & Petrochemical, District Heating, Carbon Capture

Heat pump temperature range:

Temperature output from 90 up to 250°C and steam production. Delta Temperature up to >100K

Heat pump size range:

from 5000 to 50000 kW

Heat sources:

Water, ground, waste heat, direct evaporation

Experience with heat pump projects:

Turboden completed two projects: The first is a heat pump of 6 MW power producing 120°C hot water for district heating application. The second (under commissioning) is a heat pump +MVR producing 12 MW steam 170°C in a paper mill in Finland.

Website:

<https://www.turboden.com/>

Additional links or information:

<https://www.youtube.com/watch?v=QAb99mRBGQ0>

<https://www.turboden.com/solutions/2602/large-heat-pump>

Vilter by Copeland

Available for April 23:
Yes

Available for April 24:
Yes

Participating staff:

Brendan Daly, brendan.daly@copeland.com; Jonathan Berney, jonathan.berney@copeland.com

Potential role in a heat pump project:

Industrial heat pump manufacturer/supplier, start up/commissioning

Geographic scope:

North America, Europe

Best fit for:

Food & Beverage, Technology, Pharmaceuticals & Biotechnology, Heavy Industry & Materials, Textiles & Apparel

Heat pump temperature range:

Standard product VQ95: up to 203°F / ETO prototype: up to 266°F

Heat pump size range:

600kW up to 5,000kW per unit

Heat sources:

Water source waste heat, ammonia cascade

Experience with heat pump projects:

For Vilter's new VQ95 standard heat pump, we currently have multiple active IHP projects with the first to be installed June 2025 at a North America dairy processing plant, while others are focused in district heating applications.

Website:

<https://www.copeland.com/en-us/products/refrigeration/industrial-refrigeration/industrial-heat-pumps>

Additional links or information:

<https://media.copeland.com/8d2b2a1e-45c8-422f-9faf-b20500e1309d/R-6169-VQ95-Industrial-Heat-Pump-Brochure.pdf>

<https://media.copeland.com/9cc0acd5-7fb7-4a26-82f0-b2530075f520/enabling-the-heat-pump-revolution.pdf>

<https://e360blog.copeland.com/industrial-heat-pumps-deliver-sustainability-lifecycle-benefits-in-food-and-beverage-industry>

<https://media.copeland.com/0a9f67db-f5d0-4c9c-8408-b16d0059ae16/HydroQuebecTesting10,000hours.pdf>

<https://media.copeland.com/40da917e-9917-4b60-a9b9-b16d00192b2c/VILTERHPNestleQBR.pdf>