

A COMPLETE RANGE OF SOLUTIONS DRIVEN BY TECHNOLOGY.



For more details, please contact our sales office:

Corporate & Registered Office: Carrier Airconditioning & Refrigeration Ltd, Kherki Daula Post, Narsingpur, Gurgaon 122004, Tel: 0124-4825500
Sales Offices:- Delhi/NCR: 0124-4873200 Ghaziabad: 0120-4183260 Lucknow: 0522-4158703 Chandigarh: 0172-5076756 Jaipur: 0141-6612022 Indore: 0731-6682009 Mumbai: 022-61700700 Ahmedabad: 079-44820431 Pune: 020-67045200 Kolkata: 033-40524301/343
 Chennai: 044-66448888 Bangalore: 080-43442000 Hyderabad: 040-41100222 Cochin: 0484-4029000/1 Bhubaneswar: 0413-2225853/
 2226676 Patna: 9007015161 Nagpur: 9158911676 Raipur: 9111001244 Guwahati: 9007126326 Coimbatore: 0422-4005142

CIN: U74999HR1992FLC036104/ Website: www.carrierindia.com/ E-mail: customersupport.india@carrier.utc.com

TOTALINE



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February 2018

Commercial Applied Solutions

Carrier India



Carrier is a part of UTC Building & Industrial Systems, a unit of United Technologies Corp.(UTC), a leading provider to the aerospace and building systems industries worldwide. UTC was ranked at 151st position in Fortune 500 list of global corporations in 2014.

Built on Dr. Willis Carrier's invention of modern air conditioning in 1902, Carrier's research, expertise and innovation have resulted in market leading solutions. We recognize the vital importance of maintaining a responsible balance between the comfort we create today and the world we'll live in tomorrow. Millions of people trust Carrier's leadership in delivering efficient solutions. To know more, please visit <http://www.carrier.com>.

Over the years, Carrier India has significantly contributed in promoting sustainability. Carrier is the only company in the world to be a founding member of the Green Building Councils of the U.S., Argentina, China, India, Singapore and France. In fact, Carrier was instrumental in launching the U.S. Green Building Council® (USGBC) in 1993 and was the first company in the world to join the organization.



AdvanTEC

It invests in R&D resources to advance energy efficiency, ozone layer protection and low global warming technologies in its products. Carrier's AdvanTEC Solutions Center is a natural evolution of Carrier's approach to sustainability and supports customers around the world in developing strategic, energy-efficient and custom-engineered building solutions.

Carrier's efforts in promoting sustainability can be quantifiably measured by means of the Carrier CO2NSERVATION Meter, which meticulously calculates the avoided greenhouse emissions with the help of Carrier products, globally since 2000. To know more about the Carrier CO2NSERVATION Meter, please visit <http://www.naturalleader.com>.



ACE(Achieving Competitive Excellence) is our proprietary operating system to ensure world-class quality in our products and processes. With its relentless focus on increasing efficiency and reducing waste, ACE is integral to the company's performance model. The company's facilities worldwide are using the operating system to improve quality and customer satisfaction while lowering cost.

Carrier's presence in India dates back to 1986, when Carrier India was established. In the year 1988, the first manufacturing facility was commissioned in Gurgaon, Haryana. Spread in an area of 19 acres, this state-of-the-art facility consists of highly automated manufacturing unit, an excellent R&D Center and an advanced Quality Clinic. Currently, products manufactured in this facility include Cassettes, Ducted Splits, Package Units, Air Cooled & Water Cooled Screw Chillers, Air Cooled & Water Cooled Reciprocating Chillers, Fan Coil Units, Air Handling Units, Refrigeration products and Fire & Security products.

Snapshots of Carrier India manufacturing facility



Our comprehensive Environment, Health & Safety (EH&S) program establishes a framework and provides tools for implementing our EH&S practices into our business & culture. The Carrier Gurgaon facility holds a distinctive record of delivering over 17 million man hours without a lost work day incident, clearly citing the measures of safety followed here.

Carrier India has 14 sales and service offices, more than 800 sales and service channel partners - throughout the country, ensuring efficient solutions and quality services at customer's doorstep. To know more visit <http://www.carrierindia.com>.

Centrifugal Chillers



19DV with VFD
600TR - 800TR
(2110kW - 2813kW)



19XRV with VFD
300 TR - 1500 TR
(1055 kW - 5274 kW)



19XR
300 TR - 3000 TR
(1055 kW - 10548 kW)

W/c Screw Chillers



23XRV with VFD
300 TR - 600 TR
(1055 kW - 2110 kW)



30XWV with VFD
161 TR - 460 TR
(567 kW - 1619 kW)



30XW / 30XWP / 30XWS
71 TR - 497 TR
(250 kW - 1747 kW)



30HXC
68 TR - 280 TR
(241 kW - 985 kW)

A/c Chillers



30KA
A/c Screw Chiller
160 TR to 390 TR
(560 kW - 1373 kW)



30XA
A/c Screw Chiller
79 TR - 432 TR
(278 kW - 1518 kW)



30RB / 30RAP
A/c Scroll Chiller
11 TR - 216 TR
(39 kW - 760 kW)



30KAV
A/c Screw Chiller with VFD
155 TR to 303 TR
(546 kW - 1068 kW)



30XAV
A/c Screw Chiller with VFD
95 TR - 420 TR
(336 kW - 1476 kW)

19DV Centrifugal Chiller with VFD



600TR – 800TR (2110kW – 2813kW)



Unmatched Performance

IPLV: 11.8
Full Load COP: 7.0
30s swift restart



Robust & Optimized Operation

Refrigerant lubricated ceramic bearings
Balanced thrusts by back-to-back two-stage compressor design
10% low load operation
THD <5% harmonic filter



Environmental Leadership

PUREtec™ application for R-1233zd(E) of GWP~1
Higher energy efficiency to reduce carbon emission

19XR/XRV Centrifugal Chiller



19XRV: 300 TR - 1500 TR (1055 kW - 5274 kW)
19XR: 300 TR - 3000 TR (1055 kW - 10548 kW)



Highly Reliable

Reliable & economical vaneless diffuser
Super reliable heat exchanger design



High Efficiency

Full Load COP: upto 6.5
IPLV: upto 7.4 with 19XR & upto 10.5 with 19XRV



Installation Features

Positive system design reduces footprint by ~ 30%
Cooler, condenser & compressor bolted together for easy maintenance
Super reliable heat exchanger design

23XRV W/c Screw Chiller with VFD

IEEE 519

ASHRAE

AHRI CERTIFIED



300 TR - 600 TR (1055 kW - 2110 kW)



Unmatched Performance

IPLV: 11.7
Power Factor: 0.99



Best-in-class Design

World's 1st water-cooled screw chiller with VFD
Next Gen Tri-rotor screw compressor
Significantly lower lubricating oil requirement



Superior Reliability

More than 5,00,000 hours bearing life
No slide valve – less moving parts
ASME class heat exchangers

Advanced VFD Technology

Carrier 'Liquiflo™ II' VFD with in-built harmonic filter, active front end

30XWV W/c Screw Chiller with VFD



161 TR - 460 TR (567 kW - 1619 kW)



Superior Performance

IPLV: ~10.0
Power Factor: >0.98



Reliable Screw Compressor

Carrier's own '06T' semi-hermetic compressor
Patented line design rotors & microprocessor control



Compact Foot Print

1.0 m ~ 1.4 m width – easy through standard doorway
Saves plant room space – reduces investment
Best suited for new construction as well as retrofit projects



AHRI 550/590 and 551/591 certified

30XW W/c Screw Chiller



71 TR - 497 TR (250 kW - 1747 kW)



Reliable Screw Compressor

Carrier's own '06T' semi-hermetic compressor
multiple compressors and multiple independent circuits



AHRI – 550/590 and 551/591 certified



Compact Foot Print

1.0 m ~ 1.5 m width – easy through standard doorway
Saves plant room space – reduces investment
Best suited for new construction as well as retrofit projects

A/c Screw Chiller



Fixed Speed: 79TR - 432 TR (278 kW - 1518 kW)
Variable Speed: 95 TR - 420 TR (336 kW - 1476 kW)



Superior Performance

IPLV: upto 5.7 with variable speed chiller
and upto 4.6 with fixed speed chiller
Full Load COP: 3.2



AHRI 550/590 and 551/591 certified*



Value Added Solutions

Blygold PoluAl
Pre-treated gold fins
Medium brine solution
Compressor sound enclosure
IP54 protection

* Select Range

Airside Solutions

42CE Fan Coil Unit



0.9 TR - 3.8 TR
(3.2 kW - 13.5 kW)

Exemplary Compact Design

Only 241mm height
L-shape drain pan design

Easy & Quick Installation

Interchangeable return air plenum from rear to bottom
Factory-fitted return air plenum nylon filter
Factory-fitted auxiliary drain pan to collect condensate

Value Added Optional Solutions

S.S. Drain Pan
50mm External Static Pressure Control valve package (2/3 way valve)

Silent Operation

Low speed DIDW centrifugal forward curved fan
Additional acoustic insulation

40LW Ceiling Suspended AHU



2,040 CMH - 11,560 CMH
(0.57 m³/s - 3.2 m³/s)

Compact Design

Saves installation space

Low Height

Fits easily in false ceiling space

High Efficiency

Efficient cooling coils and dual sine wave fins

Silent Operation

DIDW centrifugal blowers, quiet and suitable for long ducting

Hydronic Cassette



1.0 TR to 4.0 TR
(3.5kW - 13.5 kW)

Efficient Design

Auto Fan mode – Saves energy
Hydrophilic blue fins
High lift drain pan - 750 mm

User Friendly Operation

Auto Restart function
Auto ON/OFF timer
4-way directional air flow with motorized louvers

Easy Installation & Maintenance

Removable grille & fan
Self Diagnosis function

Improved Indoor Air Quality

Dry Mode
Fresh Air Renewal

40 HP Hydronic Hi-wall



0.75 TR - 1.3 TR
(2.64 kW - 4.46 kW)

Efficient Design

Economic Running mode
Wide operating water temp. range:
Cooling: 3°C - 20°C
Heating: 30°C - 70°C
Silent operation – Cross flow fans

User Friendly Operation

Auto ON/OFF timer
Multi connection outlet piping – Right, left & rear side

Easy Installation & Maintenance

Removable front panel

Improved Indoor Air Quality

Dry Mode
Fresh indoor air through high efficiency filters



39GH / 39CQ / 39XT
Floor Mounted AHU
2,000 CMH - 200,000 CMH
(0.56 m³/s - 55.6 m³/s)



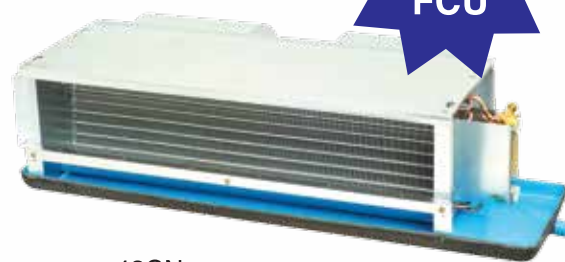
40LW
Ceiling Suspended AHU
2,040 CMH - 11,560 CMH
(0.57 m³/s - 3.2 m³/s)



40HP
Hydronic Hi-wall
0.75TR - 1.3TR
(2.64 kW - 4.46 kW)



40GKW
Hydronic Cassette
1.0 TR to 4.0 TR
(3.5kW - 13.5 kW)



42CN
07TR - 3.8TR
(2.5 kW-13.4kW)



42HS
1.8 TR - 4.4 TR
(6.3kW - 15.5kW)



42CE
Fan Coil Unit
0.9 TR - 3.8 TR
(3.2 kW - 13.5 kW)