

**Information requirements for air-to-air air conditioners**

Model(s):	<b>IH140</b>
Outdoor side heat exchanger:	air
Indoor side heat exchanger:	air
Type:	compressor driven vapour compression
Driver of compressor:	electric motor

Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	139.9	kW
Declared cooling capacity for part load at given outdoor temperatures Tj			
T j = +35 °C	$P_{dc}$	139.9	kW
T j = + 30 °C	$P_{dc}$	103.1	kW
T j = + 25 °C	$P_{dc}$	66.3	kW
T j = + 20 °C	$P_{dc}$	29.4	kW
Degradation co-efficient (**)	$C_{dc}$	0.25	—

Item	Symbol	Value	Unit
Seasonal space cooling energy efficiency	$\eta_{s,c}$	190.0	%
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures Tj			
T j = +35 °C	$EER_d$	3.28	kW/kW
T j = + 30 °C	$EER_d$	4.78	kW/kW
T j = + 25 °C	$EER_d$	6.79	kW/kW
T j = + 20 °C	$EER_d$	7.67	kW/kW

Power consumption in modes other than 'active mode'

Off mode	$P_{OFF}$	0.000	kW
Thermostat-off mode	$P_{TO}$	0.360	kW

Crankcase heater mode	$P_{CK}$	0.360	kW
Standby mode	$P_{SB}$	0.400	kW

Other items

Capacity control	Staged		
Sound power level, outdoor	$L_{WA}$		dB(A)
GWP of the refrigerant	2088		kg CO2 eq (100 years)

air flow rate, outdoor measured	—	52032	m <sup>3</sup> /h
---------------------------------	---	-------	-------------------

Contact details TRANE 88190 Golbey - France

(\*) If Cdc is not determined by measurement then the default degradation coefficient of air-conditioners shall be 0,25.

**Information requirements for air-to-air air conditioners**

Model(s):	<b>IH150</b>
Outdoor side heat exchanger:	air
Indoor side heat exchanger:	air
Type:	compressor driven vapour compression
Driver of compressor:	electric motor

Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	153.5	kW
Declared cooling capacity for part load at given outdoor temperatures $T_j$			
$T_j = +35\text{ °C}$	$P_{dc}$	153.5	kW
$T_j = +30\text{ °C}$	$P_{dc}$	113.1	kW
$T_j = +25\text{ °C}$	$P_{dc}$	72.7	kW
$T_j = +20\text{ °C}$	$P_{dc}$	32.3	kW
Degradation co-efficient (**)	$C_{dc}$	0.25	—

Item	Symbol	Value	Unit
Seasonal space cooling energy efficiency	$\eta_{s,c}$	182.0	%
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures $T_j$			
$T_j = +35\text{ °C}$	$EER_d$	3.05	kW/kW
$T_j = +30\text{ °C}$	$EER_d$	4.66	kW/kW
$T_j = +25\text{ °C}$	$EER_d$	6.29	kW/kW
$T_j = +20\text{ °C}$	$EER_d$	6.76	kW/kW

Power consumption in modes other than 'active mode'

Off mode	$P_{OFF}$	0.000	kW
Thermostat-off mode	$P_{TO}$	0.360	kW

Crankcase heater mode	$P_{CK}$	0.360	kW
Standby mode	$P_{SB}$	0.400	kW

Other items

Capacity control	Staged		
Sound power level, outdoor	$L_{WA}$		dB(A)
GWP of the refrigerant		2088	kg CO <sub>2</sub> eq (100 years)

air flow rate, outdoor measured	—	52032	m <sup>3</sup> /h
---------------------------------	---	-------	-------------------

Contact details TRANE 88190 Golbey - France

(\*) If  $C_{dc}$  is not determined by measurement then the default degradation coefficient of air-conditioners shall be 0,25.

**Information requirements for air-to-air air conditioners**

Model(s):	<b>IH170</b>
Outdoor side heat exchanger:	air
Indoor side heat exchanger:	air
Type:	compressor driven vapour compression
Driver of compressor:	electric motor

Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	162.8	kW
Declared cooling capacity for part load at given outdoor temperatures $T_j$			
$T_j = +35\text{ °C}$	$P_{dc}$	162.8	kW
$T_j = +30\text{ °C}$	$P_{dc}$	119.9	kW
$T_j = +25\text{ °C}$	$P_{dc}$	77.1	kW
$T_j = +20\text{ °C}$	$P_{dc}$	34.3	kW
Degradation co-efficient (**)	$C_{dc}$	0.25	—

Item	Symbol	Value	Unit
Seasonal space cooling energy efficiency	$\eta_{s,c}$	175.0	%
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures $T_j$			
$T_j = +35\text{ °C}$	$EER_d$	2.84	kW/kW
$T_j = +30\text{ °C}$	$EER_d$	4.54	kW/kW
$T_j = +25\text{ °C}$	$EER_d$	5.97	kW/kW
$T_j = +20\text{ °C}$	$EER_d$	6.24	kW/kW

Power consumption in modes other than 'active mode'

Off mode	$P_{OFF}$	0.000	kW
Thermostat-off mode	$P_{TO}$	0.360	kW

Crankcase heater mode	$P_{CK}$	0.360	kW
Standby mode	$P_{SB}$	0.400	kW

Other items

Capacity control	Staged		
Sound power level, outdoor	$L_{WA}$		dB(A)
GWP of the refrigerant		2088	kg CO2 eq (100 years)

air flow rate, outdoor measured	—	52032	m <sup>3</sup> /h
---------------------------------	---	-------	-------------------

Contact details TRANE 88190 Golbey - France

(\*) If  $C_{dc}$  is not determined by measurement then the default degradation coefficient of air-conditioners shall be 0,25.

**Information requirements for air-to-air air conditioners**

Model(s):	<b>IH190</b>
Outdoor side heat exchanger:	air
Indoor side heat exchanger:	air
Type:	compressor driven vapour compression
Driver of compressor:	electric motor

Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	187.3	kW
Declared cooling capacity for part load at given outdoor temperatures $T_j$			
$T_j = +35\text{ °C}$	$P_{dc}$	187.3	kW
$T_j = +30\text{ °C}$	$P_{dc}$	138.0	kW
$T_j = +25\text{ °C}$	$P_{dc}$	88.7	kW
$T_j = +20\text{ °C}$	$P_{dc}$	39.4	kW
Degradation co-efficient (**)	$C_{dc}$	0.25	—

Item	Symbol	Value	Unit
Seasonal space cooling energy efficiency	$\eta_{s,c}$	165.0	%
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures $T_j$			
$T_j = +35\text{ °C}$	$EER_d$	2.70	kW/kW
$T_j = +30\text{ °C}$	$EER_d$	4.06	kW/kW
$T_j = +25\text{ °C}$	$EER_d$	5.49	kW/kW
$T_j = +20\text{ °C}$	$EER_d$	5.66	kW/kW

Power consumption in modes other than 'active mode'

Off mode	$P_{OFF}$	0.000	kW
Thermostat-off mode	$P_{TO}$	0.360	kW

Crankcase heater mode	$P_{CK}$	0.360	kW
Standby mode	$P_{SB}$	0.400	kW

Other items

Capacity control	Staged		
Sound power level, outdoor	$L_{WA}$		dB(A)
GWP of the refrigerant		2088	kg CO <sub>2</sub> eq (100 years)

air flow rate, outdoor measured	—	66814	m <sup>3</sup> /h
---------------------------------	---	-------	-------------------

Contact details TRANE 88190 Golbey - France

(\*) If  $C_{dc}$  is not determined by measurement then the default degradation coefficient of air-conditioners shall be 0,25.

**Information requirements for air-to-air air conditioners**

Model(s):	<b>IH220</b>
Outdoor side heat exchanger:	air
Indoor side heat exchanger:	air
Type:	compressor driven vapour compression
Driver of compressor:	electric motor

Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	202.0	kW
Declared cooling capacity for part load at given outdoor temperatures Tj			
T j = +35 °C	$P_{dc}$	202.0	kW
T j = + 30 °C	$P_{dc}$	148.8	kW
T j = + 25 °C	$P_{dc}$	95.7	kW
T j = + 20 °C	$P_{dc}$	42.5	kW
Degradation co-efficient (**)	$C_{dc}$	0.25	—

Item	Symbol	Value	Unit
Seasonal space cooling energy efficiency	$\eta_{s,c}$	150.0	%
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures Tj			
T j = +35 °C	$EER_d$	2.46	kW/kW
T j = + 30 °C	$EER_d$	3.97	kW/kW
T j = + 25 °C	$EER_d$	4.71	kW/kW
T j = + 20 °C	$EER_d$	4.72	kW/kW

Power consumption in modes other than 'active mode'

Off mode	$P_{OFF}$	0.000	kW
Thermostat-off mode	$P_{TO}$	0.360	kW

Crankcase heater mode	$P_{CK}$	0.360	kW
Standby mode	$P_{SB}$	0.400	kW

Other items

Capacity control	Staged		
Sound power level, outdoor	$L_{WA}$		dB(A)
GWP of the refrigerant	2088		kg CO2 eq (100 years)

air flow rate, outdoor measured	—	66814	m <sup>3</sup> /h
---------------------------------	---	-------	-------------------

Contact details TRANE 88190 Golbey - France

(\*) If Cdc is not determined by measurement then the default degradation coefficient of air-conditioners shall be 0,25.