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ANNEXTURE- A1

**Specification of Pendent Air Conditioner of 160 W**

Cooling Capacity	160W (Closed loop type)
Refrigerant	R22/R134a/R404a / <del>R407C</del>
Mounting Type	Side/Door
Display and Temperature Control	Digital Temperature Controller
Operating Temperature	25-30 Degree Centigrade
Ambient Temperature	50 Degree Centigrade
Compressor	Hermetically Sealed
Overall Dimensions (Width x Depth x Height)	385 MM x 165 MM x 365 MM (Approx.)
Weight	18 KG (approx.)
Operating voltage	230V, AC, 50 Hz, 1Φ
Spares Required:	1. Suitable Compressor (01 No.) 2. Condenser Fan Motor Assembly (01 No.) 3. Evaporator Fan Motor Assembly (01 No.) 4. Digital Temperature Controller along with sensor (01 No.)

  
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Ranjay Kumar  
Sr. Engr. (WEX-AC)

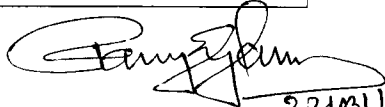
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ANNEXTURE- A2

**Specification of Pendent Air Conditioner of 250 W**

Cooling Capacity	250W (Closed loop type)
Refrigerant	R22/R134a/R404a / R4107C
Mounting Type	Side/Door
Display and Temperature Control	Digital Temperature Controller
Operating Temperature	25-30 Degree Centigrade
Ambient Temperature	50 Degree Centigrade
Compressor	Hermetically Sealed
Overall Dimensions (Width x Depth x Height)	382 MM x 255 MM x 370 MM (Approx.)
Weight	20 KG (approx.)
Operating voltage	230V, AC, 50 Hz, 1Φ
Spares Required:	1. Suitable Compressor (01 No.) 2. Condenser Fan Motor Assembly (01 No.) 3. Evaporator Fan Motor Assembly (01 No.) 4. Digital Temperature Controller along with sensor (01 No.)

  
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Sr. Engr. (WEX-AC)


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ANNEXTURE- A3

**Specification of Pendent Air Conditioner of 2000 W**

Cooling Capacity	2000W (Closed loop type)
Refrigerant	R22/R134a/R404a/R407C
Mounting Type	Side/Door
Display and Temperature Control	Digital Temperature Controller
Operating Temperature	25-30 Degree Centigrade
Ambient Temperature	50 Degree Centigrade
Compressor	Hermetically Sealed
Overall Dimensions (Width x Depth x Height)	440 MM x 300 MM x 982 MM (Approx.)
Operating voltage	230V, AC, 50 Hz, 1Φ
Spares Required:	1. Suitable Compressor (01 No.) 2. Condenser Fan Motor Assembly (01 No.) 3. Evaporator Fan Motor Assembly (01 No.) 4. Digital Temperature Controller along with sensor (01 No.)

  
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Ranjay Kumar  
Sr. Engr. (WEX-AC)

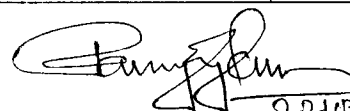
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ANNEXTURE- A4

**Specification of Oil Chilling Unit (1.5 TR)**

Sl. No.	Item	Rating & Details	Spares with each unit	Make
01.	Medium to be cooled	Hydraulic Oil		
02.	Cooling Capacity	4500 Kcal/Hr. (1.5 TR)		
03.	Operating Temperature	25-30 Degree Centigrade		
04.	Ambient Temp.	50 Degree Centigrade		
05.	Refrigerant	R22/R134a/R407c		
06.	Condenser	Air Cooled, Copper tube with aluminium fins & fan motor assembly.	01 No. extra Fan Motor Assembly should be provided with each unit of machine as spare.	
07.	Compressor	Hermetically sealed compressor.	01 No. extra Compressor should be provided with each unit of machine as spare.	Danfoss/Emerson /Kirloskar/Tecum seh.
08.	Evaporator	Plate type/Shell type compact chiller	01 No. extra Evaporator should be provided with each unit of machine as spare.	
09.	Pump	Suitable		
10.	Refrigeration Parts	Drier, Expansion Valve	01 No. extra Expansion Valve & Drier should be provided with each unit of machine as spare.	Danfoss/ Alco/ Emerson/ Sporlan/Dry All
11.	Display and Temperature Control	Suitable Digital Temperature Controller with sensors & display.	01 No. extra set of Digital Temperature Controller with sensor should be provided with each unit of machine as spare.	Danfoss/ Dixell/ Carel/ Advance/Eliwell/ Sub Zero/Euro Cold/ Euro Therm
12.	Electrical Rating	50 Hz, 3 Phase, 400-420 V OR 1 Phase, 230V.		
13.	Safety	HP& LP cut off switches, Overload Protection.		Indfoss/Danfoss/ Ranco/Emerson/ Alco (For HP & LP cut off switches)

  
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Ranjay Kumar  
Sr. Engr. (WEX-AC)


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ANNEXTURE- A5

**Specification of Oil Chilling Unit (3.5 TR)**

Sl. No.	Item	Rating & Details	Spares with each unit	Make
01.	Medium to be cooled	Hydraulic Oil		
02.	Cooling Capacity	10500 Kcal/Hr. (3.5 TR)		
03.	Operating Temperature	25-30 Degree Centigrade		
04.	Ambient Temp.	50 Degree Centigrade		
05.	Refrigerant	R22/R134a/R407c		
06.	Condenser	Air Cooled, Copper tube with aluminium fins & fan motor assembly.	01 No. extra Fan Motor Assembly should be provided with each unit of machine as spare.	
07.	Compressor	Hermetically sealed compressor.	01 No. extra Compressor should be provided with each unit of machine as spare.	Danfoss/Emerson /Kirloskar/Tecum seh.
08.	Evaporator	Plate type/Shell type compact chiller	01 No. extra Evaporator should be provided with each unit of machine as spare.	
09.	Pump	Suitable		
10.	Refrigeration Parts	Drier Expansion Valve	01 No. extra Expansion Valve & Drier should be provided with each unit of machine as spare.	Danfoss/ Alco/ Emerson/ Sporlan/Dry All
11.	Display and Temperature Control	Suitable Digital Temperature Controller with sensors & display.	01 No. extra set of Digital Temperature Controller with sensor should be provided with each unit of machine as spare.	Danfoss/ Dixell/ Carel/ Advance/Eliwell/ Sub Zero/Euro Cold/ Euro Therm
12.	Electrical Rating	50 Hz, 3 Phase, 400-420 V.		
13.	Safety	HP & LP cut off switches, Overload Protection.		Indfoss/Danfoss/ Ranco/Emerson/ Alco (For HP & LP cut off switches)


  
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Ranjay Kumar  
Sr. Engr. (WEX-AC)

## ANNEXTURE- A6

Specification of Oil Chilling Unit (5 TR)

Sl. No.	Item	Rating & Details	Spares with each unit	Make
01.	Medium to be cooled	Hydraulic Oil		
02.	Cooling Capacity	15000 Kcal/Hr. (5 TR)		
03.	Operating Temperature	25-30 Degree Centigrade		
04.	Ambient Temp.	50 Degree Centigrade		
05.	Refrigerant	R22/R134a/R407c		
06.	Condenser	Air Cooled, Copper tube with aluminium fins & fan motor assembly.	01 No. extra Fan Motor Assembly should be provided with each unit of machine as spare.	
07.	Compressor	Hermetically sealed compressor.	01 No. extra Compressor should be provided with each unit of machine as spare.	Danfoss/Emerson /Kirloskar/Tecum seh.
08.	Evaporator	Plate type/Shell type compact chiller	01 No. extra Evaporator should be provided with each unit of machine as spare.	
09.	Pump	Suitable		
10.	Refrigeration Parts	Drier Expansion Valve	01 No. extra Expansion Valve & Drier should be provided with each unit of machine as spare.	Danfoss/ Alco/ Emerson/ Sporlan/Dry All
11.	Display and Temperature Control	Suitable Digital Temperature Controller with sensors & display.	01 No. extra set of Digital Temperature Controller with sensor should be provided with each unit of machine as spare.	Danfoss/ Dixell/ Carel/ Advance/Eliwell/ Sub Zero/Euro Cold/ Euro Therm
12.	Electrical Rating	50 Hz, 3 Phase, 400-420 V.		
13.	Safety	HP & LP cut off switches, Overload Protection.		Indfoss/Danfoss/ Ranco/Emerson/ Alco (For HP & LP cut off switches)

  
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 Ranjay Kumar  
 Sr. Engr. (WEX-AL)


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ANNEXTURE- A7

**Specification of Water Chilling Unit (3 TR)**


Sl. No.	Item	Rating & Details	Spares with each unit	Make
01.	Medium to be cooled	Water		
02.	Cooling Capacity	9000 Kcal/Hr. (3 TR)		
03.	Ambient Temperature	50 Degree Centigrade		
04.	Operating Temperature	15-18 Degree Centigrade		
05.	Refrigerant	R22/R134a/R407c		
06.	Condenser	Air Cooled, Copper tube with aluminium fins & fan motor assembly.	01 No. extra Fan Motor Assembly should be provided with each unit of machine as spare.	
07.	Compressor	Hermetically sealed compressor.	01 No. extra Compressor should be provided with each unit of machine as spare.	Danfoss/Emerson /Kirloskar/Tecum seh.
08.	Evaporator	Shell type/ plate type compact chiller	01 No. extra Evaporator should be provided with each unit of machine as spare.	
09.	Refrigeration Parts	Drier Expansion Valve	01 No. extra Expansion Valve & Drier should be provided with each unit of machine as spare.	Danfoss/ Alco/ Emerson/ Sporlan/Dry All
10.	Tank	120 Liter (Approx.).		
11.	Pump	Suitable		
12.	Display and Temperature Control	Suitable Digital Temperature Controller with sensors & display.	01 No. extra set of Digital Temperature Controller with sensor should be provided with each unit of machine as spare.	Danfoss/ Dixell/ Carel/ Advance/Eliwell/ Sub Zero/Euro Cold/ Euro Therm
13.	Electrical Rating	3 Phases, 50 Hz, 400-420 Volt.		
14.	Safety	HP& LP cut off switches, Overload protection, Water level controller, Flow switch.		Indfoss/Danfoss/ Ranco/Emerson/ Alco (For HP & LP cut off switches)

  
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 Rajay Kumar  
 Sr. Engr. (WEX-AC)

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ANNEXTURE- A8Specification of Water Chilling Unit (5 TR)

Sl. No.	Item	Rating & Details	Spares with each unit	Make
01.	Medium to be cooled	Water		
02.	Cooling Capacity	15000 Kcal/Hr. (5 TR)		
03.	Ambient Temperature	50 Degree Centigrade		
04.	Operating Temperature	15-18 Degree Centigrade		
05.	Refrigerant	R22/R134a/R407c		
06.	Condenser	Air Cooled, Copper tube with aluminium fins & fan motor assembly.	01 No. extra Fan Motor Assembly should be provided with each unit of machine as spare.	
07.	Compressor	Hermetically sealed compressor.	01 No. extra Compressor should be provided with each unit of machine as spare.	Danfoss/Emerson /Kirloskar/Tecum seh.
08.	Evaporator	Shell type/ plate type compact chiller	01 No. extra Evaporator should be provided with each unit of machine as spare.	
09.	Refrigeration Parts	Drier Expansion Valve	01 No. extra Expansion Valve & Drier should be provided with each unit of machine as spare.	Danfoss/ Alco/ Emerson/ Sporlan/Dry All
10.	Tank	180 Liter (Approx.).		
11.	Pump	Suitable		
12.	Display and Temperature Control	Suitable Digital Temperature Controller with sensors & display.	01 No. extra set of Digital Temperature Controller with sensor should be provided with each unit of machine as spare.	Danfoss/ Dixell/ Carel/ Advance/Eliwell/ Sub Zero/Euro Cold/ Euro Therm
13.	Electrical Rating	3 Phases, 50 Hz, 400-420 Volt.		
14.	Safety	HP& LP cut off switches, Overload protection, Water level controller, Flow switch.		Indfoss/Danfoss/ Ranco/Emerson/ Alco (For HP & LP cut off switches)

  
 22/03/16  
 Rajay Kumar  
 Sr. Engr. (WEX-AC)