InRow® Direct Expansion Air Conditioners

ACRD301 and ACRH301 Series

Management Information Base

990-5988C-001
Release Date: 01/2024

www.schneider-electric.com

Legal Information

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Cooling MIB Overview

The information in this document is compatible with display firmware for the InRow® DX ACRD3001 and ACRH301 Series of cooling units

Self-Describing

The Cooling MIB is self-describing in that only the general format of the information is described by the MIB. The actual application data is described by the data in the OIDs themselves. The user must walk the MIB to get information about the data that is available.

General Organization

- OID Types
  - Analog: Data that has a continuous range of numeric values. Examples:
    - Temperature
    - Humidity
    - Cool setpoint
  - Discrete: Data that has discrete integer values that correspond to some functional meaning. Examples:
    - Configuration type
    - Airflow control
    - Air filter type
  - String: Data that consists of text. Examples:
    - Name
    - Location

- Sections
  - About
    - Table Index: The static reference identifier for each table entry.
    - Description: A text description of the information presented in coolingUnitAboutValue.
    - Value: The actual value of the current table entry.
  - Status
    - Analog
      - ◊ Table Index: The static reference identifier for each table entry.
      - ◊ Description: A text description of the information presented in coolingUnitStatusAnalogValue.
      - ◊ Value: The scaled value of the current table entry (multipled by coolingUnitStatusAnalogScale for integer presentation).
      - ◊ Units: The unit of measure by which coolingUnitStatusAnalogValue is expressed.
      - ◊ Scale: The factor by which coolingUnitStatusAnalogValue is expressed.
    - Discrete
      - ◊ Table Index: The static reference identifier for each table entry.
      - ◊ Description: A text description of the information presented in the ‘value’ OIDs of this table.
      - ◊ Value as String: The actual value of the current table entry expressed as a string.
      - ◊ Value as Integer: The actual value of the current table entry expressed as an integer value.
      - ◊ Integer Reference Key: A complete listing of all possible coolingUnitStatusDiscreteValueAsInteger values paired with their identifying strings.
  - Configuration
    - Analog
      - ◊ Table Index: The static reference identifier for each table entry.
      - ◊ Description: A text description of the information presented in coolingUnitConfigurationAnalogValue.
      - ◊ Value: The scaled value of the current table entry (multiplied by coolingUnitConfigurationAnalogScale for integer presentation).
      - ◊ Units: The unit of measure by which coolingUnitConfigurationAnalogValue is expressed.
      - ◊ Scale: The factor by which coolingUnitConfigurationAnalogValue is expressed.
      - ◊ Access: A description of available access to coolingUnitConfigurationAnalogValue via SNMP client.
      - ◊ Minimum: The minimum possible value of coolingUnitConfigurationAnalogValue.
      - ◊ Maximum: The maximum possible value of coolingUnitConfigurationAnalogValue.
    - Discrete
      - ◊ Table Index: The static reference identifier for each table entry.
      - ◊ Description: A text description of the information presented in the ‘value’ OIDs of this table.
      - ◊ Value As String: The actual value of the current table entry expressed as a string.
      - ◊ Value as Integer: The actual value of the current table entry expressed as an integer value.

- ◊ Integer Reference Key: A complete listing of all possible coolingUnitConfigurationDiscreteValueAsInteger values paired with their identifying strings.
- ◊ Access: A description of available access to coolingUnitConfigurationDiscreteValueAsInteger via SNMP client.

– String

- ◊ Table Index: The static reference identifier for each table entry.
- ◊ Description: A text description of the information presented in coolingUnitConfigurationStringValue.
- ◊ Value: The actual value of the current table entry.
- ◊ Max Length: The maximum string length supported by coolingUnitConfigurationStringValue.
- ◊ Access: A description of available access to coolingUnitConfigurationStringValue via SNMP client.

◦ Extended

The extended section of the MIB contains data that provides a higher level of detail for the advanced user.

– Analog

- ◊ Table Index: The static reference identifier for each table entry.
- ◊ Description: A text description of the information presented in coolingUnitExtendedAnalogValue.
- ◊ Value: The scaled value of the current table entry (multiplied by coolingUnitExtendedAnalogScale for integer presentation).
- ◊ Units: The unit of measure by which coolingUnitExtendedAnalogValue is expressed.
- ◊ Scale: The factor by which coolingUnitExtendedAnalogValue is expressed.

– Discrete

- ◊ Table Index: The static reference identifier for each table entry.
- ◊ Description: A text description of the information presented in the ‘value’ OIDs of this table.
- ◊ Value as String: The actual value of the current table entry expressed as a string.
- ◊ Value as Integer: The actual value of the current table entry expressed as an integer value.
- ◊ Integer Reference Key: A complete listing of all possible coolingUnitExtendedDiscreteValueAsInteger values paired with their identifying strings.

– String

- ◊ Table Index: The static reference identifier for each table entry.
- ◊ Description: A text description of the information presented in coolingUnitExtendedStringValue.
- ◊ Value: The actual value of the current table entry.

MIB Data Tables

coolingUnitAboutTable

- Name: coolingUnitAboutTable
- Type: OBJECT-TYPE
- OID: 1.3.6.1.4.1.318.1.1.27.1.3.2
- Full path:

  iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).apc(318).products(1).hardware(1).cooling(27).coolingUnit(1).coolingUnitAbout(3).coolingUnitAboutTable(2)
- Module: PowerNet-MIB
- Parent: coolingUnitAbout
- First child: coolingUnitAboutEntry
- Prev sibling: coolingUnitAboutTableSize
- Numerical syntax: Sequence
- Base syntax: SEQUENCE OF CoolingUnitAboutEntry
- Composed syntax: SEQUENCE OF CoolingUnitAboutEntry
- Status: mandatory
- Max access: not-accessible
- Sequences:
  - 1: coolingUnitAboutTableIndex - INTEGER(2 - integer (32 bit))
  - 2: coolingUnitAboutDescription - DisplayString(4 - octets)
  - 3: coolingUnitAboutValue - DisplayString(4 - octets)
- Description: A table of unit reference information.
- Table headings
  - **1:** Instance
  - **2:** coolingUnitAboutTableIndex(IDX)
  - **3:** coolingUnitAboutDescription
  - **4:** coolingUnitAboutValue

1	2	3	4
1.1	1	Model Number	<blk>
1.2	2	Serial Number	<blk>
1.3	3	Firmware Revision	3.0.0
1.4	4	Hardware Revision	<blk>
1.5	5	Manufacture Date	Jan 10 2022
1.6	6	PIC 1 Firmware Revision	2.42.0
1.7	7	PIC 2 Firmware Revision	2.35.0
1.8	8	Controller Bootloader Revision	0.0

coolingUnitStatusAnalogTable

- Name: coolingUnitStatusAnalogTable
- Type: OBJECT-TYPE
- OID: 1.3.6.1.4.1.318.1.1.27.1.4.1.2
- Full path:

  iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).apc(318).products(1).hardware(1).cooling(27).coolingUnit(1).coolingUnitStatus(4).coolingUnitStatusAnalog(1).coolingUnitStatusAnalogTable(2)
- Module: PowerNet-MIB
- Parent: coolingUnitStatusAnalog
- First child: coolingUnitStatusAnalogEntry
- Prev sibling: coolingUnitStatusAnalogTableSize
- Numerical syntax: Sequence
- Base syntax: SEQUENCE OF CoolingUnitStatusAnalogEntry
- Composed syntax: SEQUENCE OF CoolingUnitStatusAnalogEntry
- Status: mandatory
- Max access: not-accessible
- Sequences:
  - 1: coolingUnitStatusAnalogTableIndex - INTEGER(2 - integer (32 bit))
  - 2: coolingUnitStatusAnalogDescription - DisplayString(4 - octets)
  - 3: coolingUnitStatusAnalogValue - DisplayString(4 - octets)
  - 4: coolingUnitStatusAnalogUnits - DisplayString(4 - octets)
  - 5: coolingUnitStatusAnalogScale - INTEGER(2 - integer (32 bit))
- Description:A table of analog unit status data.
- Table headings
  - **1:** Instance
  - **2:** coolingUnitStatusAnalogTableIndex(IDX)
  - **3:** coolingUnitStatusAnalogDescription
  - **4:** coolingUnitStatusAnalogValue

    NOTE: Value will vary based on readings or settings.
  - **5:** coolingUnitStatusAnalogUnits
  - **6:** coolingUnitStatusAnalogScale

1	2	3	4	5	6
1.1	1	Group Minimum Rack Temperature	111	C	10
1.2	2	Group Minimum Rack Temperature	520	F	10
1.3	3	Group Maximum Rack Temperature	222	C	10
1.4	4	Group Maximum Rack Temperature	720	F	10
1.5	5	Total Airflow	0	L/s	1
1.6	6	Total Airflow	0	CFM	1
1.7	7	Total Air Side Cooling Demand	0	kW	10
1.8	8	Total Sensible Cooling Power	0	kW	10
1.9	9	Supply Temperature	258	C	10

1.10	10	Supply Temperature	785	F	10
1.11	11	Maximum Rack Inlet Temperature	222	C	10
1.12	12	Maximum Rack Inlet Temperature	720	F	10
1.13	13	Return Temperature	322	C	10
1.14	14	Return Temperature	900	F	10
1.15	15	Humidity	500	%RH	10
1.16	16	Room Temperature	178	C	10
1.17	17	Room Temperature	640	F	10
1.18	18	Dew Point Temperature	206	C	10
1.19	19	Dew Point Temperature	690	F	10
1.20	20	Airflow	0	L/s	1
1.21	21	Airflow	0	CFM	1
1.22	22	Air Filter Pressure	125	Pa	1
1.23	23	Air Filter Pressure	50	"WC	100
1.24	24	Cool Demand	0	kW	10
1.25	25	Cool Output	0	kW	10
1.26	26	Upper Supply Temperature	322	C	10
1.27	27	Upper Supply Temperature	900	F	10
1.28	28	Lower Supply Temperature	194	C	10
1.29	29	Lower Supply Temperature	670	F	10
1.30	30	Upper Return Temperature	328	C	10
1.31	31	Upper Return Temperature	910	F	10
1.32	32	Lower Return Temperature	317	C	10
1.33	33	Lower Return Temperature	890	F	10
1.34	34	Rack Inlet Temperature 1	Not available	C	Not available
1.35	35	Rack Inlet Temperature 1	Not available	F	Not available
1.36	36	Rack Inlet Temperature 2	Not available	C	Not available
1.37	37	Rack Inlet Temperature 2	Not available	F	Not available
1.38	38	Rack Inlet Temperature 3	Not available	C	Not available
1.39	39	Rack Inlet Temperature 3	Not available	F	Not available
1.40	40	Rack Inlet Temperature 4	Not available	C	Not available
1.41	41	Rack Inlet Temperature 4	Not available	F	Not available
1.42	42	Suction Pressure	83	bar	10
1.43	43	Suction Pressure	1200	psi	10

1.44	44	Discharge Pressure	276	bar	10
1.45	45	Discharge Pressure	4000	psi	10
1.46	46	Suction Evap. Temp.	128	C	10
1.47	47	Suction Evap. Temp.	550	F	10
1.48	48	Discharge Cond. Temp.	406	C	10
1.49	49	Discharge Cond. Temp.	1050	F	10
1.50	50	Inlet Evap Coil Temperature	206	C	10
1.51	51	Inlet Evap Coil Temperature	690	F	10
1.52	52	Outlet Evap Coil Temperature	256	C	10
1.53	53	Outlet Evap Coil Temperature	780	F	10
1.54	54	Superheat	50	C	10
1.55	55	Superheat	90	F	10
1.56	56	Fan 1	0	rpm	1
1.57	57	Fan 2	1	rpm	1
1.58	58	Fan 3	2	rpm	1
1.59	59	Fan 4	3	rpm	1
1.60	60	Fan 5	4	rpm	1
1.61	61	Fan 6	5	rpm	1
1.62	62	Fan 7	6	rpm	1
1.63	63	Fan 8	7	rpm	1
1.64	64	Compressor Speed	0	Hz	10
1.65	65	EEV Position	1000	%	10
1.66	66	Condenser Fan Speed	0	%	10
1.67	67	Fan Power Supply 1	2000	A	1000
1.68	68	Fan Power Supply 2	2000	A	1000
1.69	69	Condenser Fan Power	Not available	W	Not available
1.70	70	Compressor Power	0	kW	100
1.71	71	Unit Run Hours	0	hr	1
1.72	72	Air Filter Run Hours	1	hr	1
1.73	73	Compressor Run Hours	0	hr	1
1.74	74	Condenser Fan Run Hours	0	hr	1
1.75	75	Condensate Pump Run Hours	0	hr	1
1.76	76	Fan 1 Run Hours	0	hr	1
1.77	77	Fan 2 Run Hours	1	hr	1
1.78	78	Fan 3 Run Hours	1	1 hr	1
1.79	79	Fan 4 Run Hours	1	hr	1
1.80	80	Fan 5 Run Hours	1	hr	1

1.81	81	Fan 6 Run Hours	1	hr	1
1.82	82	Fan 7 Run Hours	1	hr	1
1.83	83	Fan 8 Run Hours	1	hr	1
1.84	84	Humidifier Run Hours	0	hr	1
1.85	85	Heater 1 Run Hours	0	hr	1
1.86	86	Heater 2 Run Hours	0	hr	1
1.87	87	Dry Cooler Fan Run Hours	0	hr	1
1.88	88	Inlet Water Inlet Temperature	Not available	C	Not available
1.89	89	Inlet Water Inlet Temperature	Not available	F	Not available
1.90	90	Modulating Valve Position	2	%	10
1.91	91	Condenser Valve Position	0	%	10
1.92	92	Dry Cooler Fan Speed	0	%	10
1.93	93	Evaporator Fan Speed	0	%	10
1.94	94	Group Dew Point Temperature	206	C	10
1.95	95	Group Dew Point Temperature	690	F	10

coolingUnitStatusDiscreteTable

- Name: coolingUnitStatusDiscreteTable
- Type: OBJECT-TYPE
- OID: 1.3.6.1.4.1.318.1.1.27.1.4.2.2
- Full path:

  iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).apc(318).products(1).hardware(1).cooling(27).coolingUnit(1).coolingUnitStatus(4).coolingUnitStatusDiscrete(2).coolingUnitStatusDiscreteTable(2)
- Module: PowerNet-MIB
- Parent: coolingUnitStatusDiscrete
- First child: coolingUnitStatusDiscreteEntry
- Prev sibling: coolingUnitStatusDiscreteTableSize
- Numerical syntax: Sequence
- Base syntax: SEQUENCE OF CoolingUnitStatusDiscreteEntry
- Composed syntax: SEQUENCE OF CoolingUnitStatusDiscreteEntry
- Status: mandatory
- Max access: not-accessible
- Sequences:
  - 1: coolingUnitStatusDiscreteTableIndex - INTEGER(2 - integer (32 bit))
  - 2: coolingUnitStatusDiscreteDescription - DisplayString(4 - octets)
  - 3: coolingUnitStatusDiscreteValueAsString - DisplayString(4 - octets)
  - 4: coolingUnitStatusDiscreteValueAsInteger - INTEGER(2 - integer (32 bit))
  - 5: coolingUnitStatusDiscreteIntegerReferenceKey - DisplayString(4 - octets)
- Description:A table of analog unit status data.
- Table headings
  - **1:** Instance
  - **2:** coolingUnitStatusDiscreteTableIndex(IDX)
  - **3:** coolingUnitStatusDiscreteDescription
  - **4:** coolingUnitStatusDiscreteValueAsString

    NOTE: Value will vary based on readings or settings.
  - **5:** coolingUnitStatusDiscreteValueAsInteger

    NOTE: Value will vary based on readings or settings.
  - **6:** coolingUnitStatusDiscreteIntegerReferenceKey

1	2	3	4	5	6
1.1	1	Active Flow Control Status	NA	4	Under(0),Okay(1), Over(2),NA(3),NA (4)
1.2	2	Mode	Off	2	Unknown(0),Init(1), Off(2),Standby(3), Idle(4), Delaying(5), Active(6)
1.3	3	Shutdown Input State	Open	0	Open(0),Closed(1)
1.4	4	Alarm Relay 1	Open	0	Open(0),Closed(1)
1.5	5	Alarm Relay 2	Open	0	Open(0),Closed(1)
1.6	6	Alarm Relay 3	Open	0	Open(0),Closed(1)
1.7	7	Alarm Relay 4	Open	0	Open(0),Closed(1)

1.8	8	Active Power Source	Primary	0	Primary(0), Secondary(1)
1.9	9	Primary Power Source	Bad	0	Bad(0),Good(1)
1.10	10	Secondary Power Source	Bad	0	Bad(0),Good(1)
1.11	11	Fan Power Supply 1	On	1	Off(0),On(1)
1.12	12	Fan Power Supply 2	On	1	Off(0),On(1)
1.13	13	Liquid Line Solenoid	Closed	1	Open(0),Closed(1)
1.14	14	Compressor	Off	0	Off(0),On(1)

coolingUnitConfigurationAnalogTable

- Name: coolingUnitConfigurationAnalogTable
- Type: OBJECT-TYPE
- OID: 1.3.6.1.4.1.318.1.1.27.1.5.1.2
- Full path:

  iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).apc(318).products(1).hardware(1).cooling(27).coolingUnit(1).coolingUnitConfiguration(5).coolingUnitConfigurationAnalog(1).coolingUnitConfigurationAnalogTable(2)
- Module: PowerNet-MIB
- Parent: coolingUnitConfigurationAnalog
- First child: coolingUnitConfigurationAnalogEntry
- Prev sibling: coolingUnitConfigurationAnalogTableSize
- Numerical syntax: Sequence
- Base syntax: SEQUENCE OF CoolingUnitConfigurationAnalogEntry
- Composed syntax: SEQUENCE OF CoolingUnitConfigurationAnalogEntry
- Status: mandatory
- Max access: not-accessible
- Sequences:
  - 1: coolingUnitConfigurationAnalogTableIndex - INTEGER(2 - integer (32 bit))
  - 2: coolingUnitConfigurationAnalogDescription - DisplayString(4 - octets)
  - 3: coolingUnitConfigurationAnalogValue - INTEGER(2 - integer (32 bit))
  - 4: coolingUnitConfigurationAnalogUnits - DisplayString(4 - octets)
  - 5: coolingUnitConfigurationAnalogScale - INTEGER(2 - integer (32 bit))
  - 6: coolingUnitConfigurationAnalogAccess - INTEGER(2 - integer (32 bit))
  - 7: coolingUnitConfigurationAnalogMinimum - INTEGER(2 - integer (32 bit))
  - 8: coolingUnitConfigurationAnalogMaximum - INTEGER(2 - integer (32 bit))
- Description:A table of analog unit status data.

- Table headings
  - **1:** Instance
  - **2:** coolingUnitConfigurationAnalogTableIndex(IDX)
  - **3:** coolingUnitConfigurationAnalogDescription
  - **4:** coolingUnitConfigurationAnalogValue

    NOTE: Value will vary based on readings or settings.
  - **5:** coolingUnitConfigurationAnalogUnits
  - **6:** coolingUnitConfigurationAnalogScale
  - **7:** coolingUnitConfigurationAnalogAccess
  - **8:** coolingUnitConfigurationAnalogMinimum
  - **9:** coolingUnitConfigurationAnalogMaximum

1	2	3	4	5	6	7	8	9
1.1	1	Supply Air Setpoint	200	C	10	readWrite(2)	150	302
1.2	2	Supply Air Setpoint	680	F	10	readWrite(2)	590	864
1.3	3	Cool Setpoint	222	C	10	readWrite(2)	178	350
1.4	4	Cool Setpoint	720	F	10	readWrite(2)	640	950
1.5	5	Startup Delay	0	sec	1	readWrite(2)	0	999
1.6	6	Maximum Fan Speed	1000	%	10	readWrite(2)	200	1100
1.7	7	Manual IT Fan Speed	500	%	10	readWrite(2)	200	1000
1.8	8	Runtime Balancing Difference	72	hr	1	readWrite(2)	24	720
1.9	9	Switchover Handoff Time	1	min	1	readWrite(2)	0	30
1.10	10	Number of Leak Detectors in Unit	0	(zero-length)	1	readWrite(2)	0	4
1.11	11	Number of Rack Inlet Temp Sensors in Unit	1	(zero-length)	1	readWrite(2)	0	4
1.12	12	Number of Evaporator Fan Power Supplies	1	(zero-length)	1	readWrite(2)	1	2
1.13	13	Number of Active Flow Controllers	0	(zero-length)	1	readWrite(2)	0	5
1.14	14	Altitude	425	m	1	readWrite(2)	0	2286
1.15	15	Altitude	1394	ft	1	readWrite(2)	0	7500
1.16	16	Condensate Pump Hold Time	120	sec	1	readWrite(2)	0	120
1.17	17	Supply Air High Temperature Threshold	350	C	10	readWrite(2)	0	1000
1.18	18	Supply Air High	950	F	10	readWrite(2)	320	2120

		Temperature Threshold						
1.19	19	Return Air High Temperature Threshold	600	C	10	readWrite(2)	0	1000
1.20	20	Return Air High Temperature Threshold	1400	F	10	readWrite(2)	320	2120
1.21	21	Rack Inlet High Temperature Threshold	450	C	10	readWrite(2)	0	1000
1.22	22	Rack Inlet High Temperature Threshold	1130	F	10	readWrite(2)	320	2120
1.23	23	Return Humidity Low Threshold	100	%RH	10	readWrite(2)	200	500
1.24	24	Return Humidity High Threshold	600	%RH	10	readWrite(2)	350	900
1.25	25	Clogged Air Filter Threshold	199	Pa	1	readWrite(2)	25	237
1.26	26	Clogged Air Filter Threshold	80	”WC	100	readWrite(2)	10	95
1.27	27	Minimum Fan Speed	200	%	10	readWrite(2)	200	1000
1.28	28	Number of Units in Group	1	(zero-length)	1	readWrite(2)	1	20
1.29	29	Number of Backup Units	0	(zero-length)	1	readWrite(2)	0	20
1.30	30	Humidifica-tion Setpoint	40	&	1	readWrite(2)	0	100
1.31	31	Dehumidifi-cation Setpoint	60	&	1	readWrite(2)	0	100
1.32	32	Humidity Hysteresis	2	%	1	readWrite(2)	0	20
1.33	33	Reheat Setpoint	117	C	10	readWrite(2)	100	150
1.34	34	Reheat Setpoint	530	F	10	readWrite(2)	500	590
1.35	35	Twin Cool Chilled Water Threshold	72	C	10	readWrite(2)	50	250
1.36	36	Twin Cool Chilled Water Threshold	450	F	10	readWrite(2)	410	770

coolingUnitConfigurationDiscreteTable

- Name: coolingUnitConfigurationDiscreteTable
- Type: OBJECT-TYPE
- OID: 1.3.6.1.4.1.318.1.1.27.1.5.2.2
- Full path:

  iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).apc(318).products(1).hardware(1).cooling(27).coolingUnit(1).coolingUnitConfiguration(5).coolingUnitConfigurationDiscrete(2).coolingUnitConfigurationDiscreteTable(2)
- Module: PowerNet-MIB
- Parent: coolingUnitConfigurationDiscrete
- First child: coolingUnitConfigurationDiscreteEntry
- Prev sibling: coolingUnitConfigurationDiscreteTableSize
- Numerical syntax: Sequence
- Base syntax: SEQUENCE OF CoolingUnitConfigurationDiscreteEntry
- Composed syntax: SEQUENCE OF CoolingUnitConfigurationDiscreteEntry
- Status: mandatory
- Max access: not-accessible
- Sequences:
  - 1: coolingUnitConfigurationDiscreteTableIndex - INTEGER(2 - integer (32 bit))
  - 2: coolingUnitConfigurationDiscreteDescription - DisplayString(4 - octets)
  - 3: coolingUnitConfigurationDiscreteValueAsString - DisplayString(4 - octets)
  - 4: coolingUnitConfigurationDiscreteValueAsInteger - INTEGER(2 - integer (32 bit))
  - 5: coolingUnitConfigurationDiscreteIntegerReferenceKey - DisplayString(4 - octets)
  - 6: coolingUnitConfigurationDiscreteAccess - INTEGER(2 - integer (32 bit))
- Description: A table of analog unit status data.
- Table headings
  - **1:** Instance
  - **2:** coolingUnitConfigurationDiscreteTableIndex(IDX)
  - **3:** coolingUnitConfigurationDiscreteDescription
  - **4:** coolingUnitConfigurationDiscreteValueAsString

    NOTE: Value will vary based on readings or settings.
  - **5:** coolingUnitConfigurationDiscreteValueAsInteger

    NOTE: Value will vary based on readings or settings.
  - **6:** coolingUnitConfigurationDiscreteIntegerReferenceKey
  - **7:** coolingUnitConfigurationDiscreteAccess

1	2	3	4	5	6	7
1.1	1	Unit	Off	0	Off(0),On(1)	readOnly(1)
1.2	2	Cooling Strategy	INROW	2	RACS(0),HACS(1),INROW(2),CACS(3),Manual(4)	readOnly(1)
1.3	3	Unit Role Override	Automatic	0	Automatic(0),Forced On(1)	readWrite(2)
1.4	4	Idle on Leak Detect	Yes	1	No(0),Yes(1)	readWrite(2)

1.5	5	Shutdown Input State	Open	0	Open(0),Closed (1)	readOnly(1)
1.6	6	Shutdown Input Present	No	0	No(0),Yes(1)	readWrite(2)
1.7	7	Shutdown Input Normal State	Open	0	Open(0),Closed (1)	readWrite(2)
1.8	8	Protect On/ Standby	Disable	0	Disable(0), Enable(1)	readOnly(1)
1.9	9	Power Feed Type	Single	0	Single(0),Dual(1)	readOnly(1)
1.10	10	Delta-T Setpoint	25F/13.9C	3	10F/5.6C(0),15F/ 8.3C(1),20F/ 11.1C(2),25F/ 13.9C(3),30F/ 16.7C(4),35F/ 19.4C(5),40F/ 22.2C(6)	readWrite(2)
1.11	11	Voltage	Not Configured	–1	Not Configured (-1),100-120v (0),200-240v(1)	readOnly(1)
1.12	12	Air Filter Type	Standard	0	Standard(0),High Efficiency(1)	readWrite(2)
1.13	13	Run-Time Balancing Enable	Enable	1	Disable(0), Enable(1)	readWrite(2)
1.14	14	Load Assist Enable	Enable	1	Disable(0), Enable(1)	readWrite(2)
1.15	15	Active Flow Control Bias	Zero	2	Positive(0), Slightly Positive (1),Zero(2), Slightly Negative (3),Negative(4)	readWrite(2)
1.16	16	Twin Cool Primary Select	Chilled Water	1	DX(0),Chilled Water(1)	readWrite(2)
1.17	17	Twin Cool Assist	Enable	1	Disable(0), Enable(1)	readWrite(2)

coolingUnitConfigurationStringTable

- Name: coolingUnitConfigurationString
- Type: OBJECT-TYPE
- OID: 1.3.6.1.4.1.318.1.1.27.1.5.3.2
- Full path:

  iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).apc(318).products(1).hardware(1).cooling(27).coolingUnit(1).coolingUnitConfiguration(5).coolingUnitConfigurationString(3).coolingUnitConfigurationStringTable(2)
- Module: PowerNet-MIB
- Parent: coolingUnitConfigurationString
- First child: coolingUnitConfigurationStringEntry
- Prev sibling: coolingUnitConfigurationStringTableSize
- Numerical syntax: Sequence
- Base syntax: SEQUENCE OF CoolingUnitConfigurationStringEntry
- Composed syntax: SEQUENCE OF CoolingUnitConfigurationStringEntry
- Status: mandatory
- Max access: not-accessible
- Sequences:
  - 1: coolingUnitConfigurationStringTableIndex - INTEGER(2 - integer (32 bit))
  - 2: coolingUnitConfigurationStringDescription - DisplayString(4 - octets)
  - 3: coolingUnitConfigurationStringValue - DisplayString(4 - octets)
  - 4: coolingUnitConfigurationStringMaxLength - INTEGER(2 - integer (32 bit))
  - 5: coolingUnitConfigurationStringAccess - INTEGER(2 - integer (32 bit))
- Description: A table of unit configuration strings.
- Table headings
  - **1:** Instance
  - **2:** coolingUnitConfigurationStringTableIndex(IDX)
  - **3:** coolingUnitConfigurationStringDescription
  - **4:** coolingUnitConfigurationStringValue

    NOTE: Value will vary based on readings or settings.
  - **5:** coolingUnitConfigurationStringMaxLength
  - **6:**coolingUnitConfigurationStringAccess

1	2	3	4	5	6
1.1	1	Name	apcB913E6	255	readOnly(1)
1.2	2	Location	Unknown	255	readOnly(1)

coolingUnitExtendedAnalogTable

- Name: coolingUnitExtendedAnalog
- Type: OBJECT-TYPE
- OID: 1.3.6.1.4.1.318.1.1.27.1.6.1.2
- Full path:

  iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).apc(318).products(1).hardware(1).cooling(27).coolingUnit(1).coolingUnitExtended(6).coolingUnitExtendedAnalog(1).coolingUnitExtendedAnalogTable(2)
- Module: PowerNet-MIB
- Parent: coolingUnitExtendedAnalog
- First child: coolingUnitExtendedAnalogEntry
- Prev sibling: coolingUnitExtendedAnalogTableSize
- Numerical syntax: Sequence
- Base syntax: SEQUENCE OF CoolingUnitExtendedAnalogEntry
- Composed syntax: SEQUENCE OF CoolingUnitExtendedAnalogEntry
- Status: mandatory
- Max access: not-accessible
- Sequences:
  - 1: coolingUnitExtendedAnalogTableIndex - INTEGER(2 - integer (32 bit))
  - 2: coolingUnitExtendedAnalogDescription - DisplayString(4 - octets)
  - 3: coolingUnitExtendedAnalogValue - INTEGER(2 - integer (32 bit))
  - 4: coolingUnitExtendedAnalogUnits - DisplayString(4 - octets)
  - 5: coolingUnitExtendedAnalogScale - INTEGER(2 - integer (32 bit))
- Description: A table of secondary analog data for the cooling unit or one of its components.
- Table headings
  - **1:** Instance
  - **2:** coolingUnitExtendedAnalogTableIndex(IDX)
  - **3:** coolingUnitExtendedAnalogDescription
  - **4:** coolingUnitExtendedAnalogValue

    NOTE: Value will vary based on readings or settings.
  - **5:** coolingUnitExtendedAnalogUnits
  - **6:** coolingUnitExtendedAnalogScale

1	2	3	4	5	6
1.1	1	Heater Max Output	50	%	1
1.2	2	Condenser Valve Starting Position	50	%	1
1.3	3	Coolant Liquid Freezing Point	0	C	10
1.4	4	Coolant Liquid Freezing Point	320	F	10
1.5	5	Condenser Valve Minimum Position	10	%	1
1.6	6	Compressor Envelope Start Offset	28	C	10
1.7	7	Compressor Envelope Start Offset	50	F	10
1.8	8	Superheat Recovery Timeout	10	min	1
1.9	9	EEV Sync Hours	72	hr	1
1.10	10	Envelope Max Condensing Temperature set	572	C	10
1.11	11	Envelope Max Condensing Temperature set	1350	F	10

1.12	12	Superheat Setpoint	100	C	10
1.13	13	Superheat Setpoint	180	F	10
1.14	14	Condenser Temperature Setpoint	450	C	10
1.15	15	Condenser Temperature Setpoint	1130	F	10
1.16	16	Dry Cooler Minimum Fan Speed	11	%	1
1.17	17	Energy Saver Coil Enable Threshold	60	C	10
1.18	18	Energy Saver Coil Enable Threshold	108	F	10
1.19	19	Energy Saver Stop DX Integration FS	480	(zero-length)	1
1.20	20	DX Only Run DX Integration FS	300	(zero-length)	1
1.21	21	DX Only Run DX Deadband	6	C	10
1.22	22	DX Only Run DX Deadband	10	F	10
1.23	23	DX Only DC Fan Min Speed	11	%	1
1.24	24	Low Coolant Temp Clear FS	300	(zero-length)	1
1.25	25	Low Coolant Temp Generate FS	3000	(zero-length)	1
1.26	26	Low Coolant Clear Deadband	6	C	10
1.27	27	Low Coolant Clear Deadband	10	F	10
1.28	28	ES Dehum Dewpoint deadband	80	C	10
1.29	29	ES Dehum Dewpoint deadband	144	F	10
1.30	30	ES Dehum Coolant Temp High FS	300	(zero-length)	1
1.31	31	LF SW Active Limit Max Fan Speed	80	%	1
1.32	32	LF SW Active Limit Fan Speed Hold Time	120	min	1
1.34	34	Maximum Compressor Restarts	3	(zero-length)	1
1.35	35	Minimum Compressor Speed	200	Hz	10
1.36	36	Maximum Compressor Speed	1000	Hz	10
1.37	37	Low Speed Running Time	Not available	min	Not available
1.38	38	Boost Duration	Not available	sec	Not available
1.39	39	Low Speed Limit	40	Hz	1
1.40	40	Boost Speed	60	Hz	1
1.41	41	Startup Compressor Speed	500	Hz	10
1.42	42	EEV Opening at Startup	1000	%	10
1.43	43	EEV Mini Pos	100	%	10
1.44	44	EEV Quick Adjust Min Postion	350	%	10
1.45	45	Unit Run Hour Alarm Interval	52	weeks	1
1.46	46	Air Filter Run Hour Alarm Interval	18	weeks	1
1.47	47	Compressor Run Hour Alarm Interval	18	weeks	1
1.48	48	Condenser Fan Run Hour Alarm Interval	18	weeks	1
1.49	49	Condensate Pump Run Hour Alarm Interval	18	weeks	1
1.50	50	Fan 1 Run Hour Alarm Interval	18	weeks	1
1.51	51	Fan 2 Run Hour Alarm Interval	18	weeks	1
1.52	52	Fan 3 Run Hour Alarm Interval	18	weeks	1
1.53	53	Fan 4 Run Hour Alarm Interval	18	weeks	1
1.54	54	Fan 5 Run Hour Alarm Interval	18	weeks	1
1.55	55	Fan 6 Run Hour Alarm Interval	18	weeks	1

1.56	56	Fan 7 Run Hour Alarm Interval	18	weeks	1
1.57	57	Fan 8 Run Hour Alarm Interval	18	weeks	1
1.58	58	Humidifier Run Hour Alarm Interval	18	weeks	1
1.59	59	Heater 1 Run Hour Alarm Interval	18	weeks	1
1.60	60	Heater 2 Run Hour Alarm Interval	18	weeks	1
1.61	61	Dry Cooler Fan Run Hour Alarm Interval	18	weeks	1
1.62	62	Twin Cool Supply Temperature Deadband	10	F	10
1.63	63	Twin Cool Supply Temperature Deadband	6	C	10
1.64	64	Twin Cool Supply Temperature Integration Product	300	(zero-length)	1
1.64	65	Compressor Restart Time	30	sec	1

coolingUnitExtendedDiscreteTable

- Name: coolingUnitExtendedDiscreteTable
- Type: OBJECT-TYPE
- OID: 1.3.6.1.4.1.318.1.1.27.1.6.2.2
- Full path:

  iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).apc(318).products(1).hardware(1).cooling(27).coolingUnit(1).coolingUnitExtended(6).coolingUnitExtendedDiscrete(2).coolingUnitExtendedDiscreteTable(2)
- Module: PowerNet-MIB
- Parent: coolingUnitExtendedDiscrete
- First child: coolingUnitExtendedDiscreteEntry
- Prev sibling: coolingUnitExtendedDiscreteTableSize
- Numerical syntax: Sequence
- Base syntax: SEQUENCE OF CoolingUnitExtendedDiscreteEntry
- Composed syntax: SEQUENCE OF CoolingUnitExtendedDiscreteEntry
- Status: mandatory
- Max access: not-accessible
- Sequences:
  - 1: coolingUnitExtendedDiscreteTableIndex - INTEGER(2 - integer (32 bit))
  - 2: coolingUnitExtendedDiscreteDescription - DisplayString(4 - octets)
  - 3: coolingUnitExtendedDiscreteValueAsString - DisplayString(4 - octets)
  - 4: coolingUnitExtendedDiscreteValueAsInteger - INTEGER(2 - integer (32 bit))
  - 5: coolingUnitExtendedDiscreteIntegerReferenceKey - DisplayString(4 - octets)
- Description: A table of secondary discrete cooling unit data.
- Table headings
  - **1:** Instance
  - **2:** coolingUnitExtendedDiscreteTableIndex(IDX)
  - **3:** coolingUnitExtendedDiscreteDescription
  - **4:** coolingUnitExtendedDiscreteValueAsString

    NOTE: Value will vary based on readings or settings.
  - **5:** coolingUnitExtendedDiscreteValueAsInteger

    NOTE: Value will vary based on readings or settings.
  - **6:** coolingUnitExtendedDiscreteIntegerReferenceKey

1	2	3	4	5	6
1.1	1	Condensate Drain Type	Pump	0	Pump(0),Gravity(1)
1.2	2	Humidity Sensor Present	Yes	1	No(0),Yes(1)
1.3	3	EXV Type	Sporlan	1	Not Configured(-1),Carel(0),Sporlan (1)
1.4	4	Air Filter Sensor Type	Analog	1	Binary(0),Analog(1)
1.5	5	Humidifier Control	No	0	No(0),Yes(1)
1.6	6	Dehumidification Control	No	0	No(0),Yes(1)
1.7	7	Heat Assist And Reheat Control	No	0	No(0),Yes(1)
1.8	8	Coolant Liquid Type	Water	0	Water(0),Propylene Glycol(1), Ethylene Glycol(2)
1.12	12	Enable Envelope Management	Yes	1	No(0),Yes(1)

1.13	13	Condenser Temperature Setpoint Mode	Manual	0	Manual(0),Auto(1)
1.14	14	Superheat Recovery	Yes	1	No(0),Yes(1)
1.15	15	EEV Sync Control	Yes	1	No(0),Yes(1)
1.16	16	RH By PwrLn2	Yes	1	No(0),Yes(1)
1.17	17	Pump Down	No	0	No(0),Yes(1)
1.18	18	Dry Cooler Control Type	Modulated	1	Not Configured(-1),Discrete(0), Modulated(1)
1.19	19	Oil Return Management	Not available	Not available	Off(0),On(1)
1.20	20	Unit Run Hour Alarm Enabled	Enabled	1	Disabled(0),Enabled(1)
1.21	21	Air Filter Run Hour Alarm Enabled	Enabled	1	Disabled(0),Enabled(1)
1.22	22	Compressor Run Hour Alarm Enabled	Disabled	0	Disabled(0),Enabled(1)
1.23	23	Condenser Fan Run Hour Alarm Enabled	Disabled	0	Disabled(0),Enabled(1)
1.24	24	Condensate Pump Run Hour Alarm Enabled	Disabled	0	Disabled(0),Enabled(1)
1.25	25	Fan 1 Run Hour Alarm Enabled	Disabled	0	Disabled(0),Enabled(1)
1.26	26	Fan 2 Run Hour Alarm Enabled	Disabled	0	Disabled(0),Enabled(1)
1.27	27	Fan 3 Run Hour Alarm Enabled	Disabled	0	Disabled(0),Enabled(1)
1.28	28	Fan 4 Run Hour Alarm Enabled	Disabled	0	Disabled(0),Enabled(1)
1.29	29	Fan 5 Run Hour Alarm Enabled	Disabled	0	Disabled(0),Enabled(1)
1.30	30	Fan 6 Run Hour Alarm Enabled	Disabled	0	Disabled(0),Enabled(1)
1.31	31	Fan 7 Run Hour Alarm Enabled	Disabled	0	Disabled(0),Enabled(1)
1.32	32	Fan 8 Run Hour Alarm Enabled	Disabled	0	Disabled(0),Enabled(1)
1.33	33	Humidifier Run Hour Alarm Enabled	Disabled	0	Disabled(0),Enabled(1)
1.34	34	Heater 1 Run Hour Alarm Enabled	Disabled	0	Disabled(0),Enabled(1)
1.35	35	Heater 2 Run Hour Alarm Enabled	Disabled	0	Disabled(0),Enabled(1)
1.36	36	Dry Cooler Fan Run Hour Alarm Enabled	Disabled	0	Disabled(0),Enabled(1)
1.37	37	Maintenance Mode	Disable	0	Disable(0),Enable With Timeout(1), Enable Indefinitely(2)
1.38	38	Coil Type	Twin Cool	2	Not Configured(-1),DX(0),Energy Saving(1),Twin Cool(2),Chilled Water (3)
1.39	39	Heat Rejection Method	Water Cooled	1	Not Configured(-1),Air Cooled(0), Water Cooled(1)
1.40	40	Use Evap Coil Outlet Sat. Temp. for Superheat	Yes	1	No(0),Yes(1)

coolingUnitExtendedStringTable

- Name: coolingUnitExtendedStringTable
- Type: OBJECT-TYPE
- OID: 1.3.6.1.4.1.318.1.1.27.1.6.3.2
- Full path:

  iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).apc(318).products(1).hardware(1).cooling(27).coolingUnit(1).coolingUnitExtended(6).coolingUnitExtendedString(3).coolingUnitExtendedStringTable(2)
- Module: PowerNet-MIB
- Parent: coolingUnitExtendedString
- First child: coolingUnitExtendedStringEntry
- Prev sibling: coolingUnitExtendedStringTableSize
- Numerical syntax: Sequence
- Base syntax: SEQUENCE OF CoolingUnitExtendedStringEntry
- Composed syntax: SEQUENCE OF CoolingUnitExtendedStringEntry
- Status: mandatory
- Max access: not-accessible
- Sequences:
  - 1: coolingUnitExtendedStringTableIndex - INTEGER(2 - integer (32 bit))
  - 2: coolingUnitExtendedStringDescription - DisplayString(4 - octets)
  - 3: coolingUnitExtendedStringValue - DisplayString(4 - octets)
- Description: A table of secondary unit reference data.

No table data.

Schneider Electric
35 rue Joseph Monier
92500 Rueil Malmaison
France

+ 33 (0) 1 41 29 70 00
+ 91 9886115853

www.schneider-electric.com

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