

# Patton Compact Rack

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# Compact Rack

## R448A/R449A, R134a

Increased interest in centralised plant applications with smaller connected loads and the development of efficient, smaller displacement compressors has allowed SCM REF Australia to develop the Patton Compact Rack. Application of the new generation compressors on a compact frame, results in a smaller, lighter and efficient design. The overall result is a quality, high-tech unit with, lower install requirements, better low load operation and optimal performance.

Combining the advantages of a conventional rack system, and parametric control, the Patton Compact Rack offers the simplicity of one complete unit. making it a cost-effective solution for new developments or replacement opportunities. Designed with a small footprint, this solution is ideal for applications with space constraints.

## Features & Benefits

- 50L Vertical receiver with liquid level sight glasses
- Suited to all HFC refrigerants - R134a, R448A, R404A as well as many others
- Fully insulated suction header + suction filter shell
- Steel (fully painted) frame
- Common header to oil separator / reservoir
- TraxOil level regulation with individual isolating valves
- High pressure safety control per compressor + high pressure / low pressure safety control per rack
- Frascold compressors
- VSD lead compressor for variable capacity control (via specific model number)
- Head cooling fans included for LT application
- Multiple field connections (Liquid and Suction)
- Pre-wired system with integrated controllers (Dixell or Danfoss)
- Replaceable core liquid line drier shell, sight glass and isolating valve
- Pressure transducers with isolating valves

## Nomenclature

<b>CR</b>	<b>V</b>	<b>3X</b>	<b>Q5-21Y</b>	<b>924</b>
<b>Unit Type</b> Compact Rack			<b>Qx, Sx</b>	<b>Temprite Oil Sep Mode</b>
	<b>Variable Capacity Type</b> V = Variable Frequency Drive Absent - Standard Fixed Speed Unit		<b>Compressor Model</b> Qx---, Sxx--- = FRASCOLD	
	<b>Compressor Qty</b>			

# 3 Compressors

## MEDIUM TEMP

### R404A MED TEMP

Item Number	Model	SCT	Evaporating Temp °C (Watts)		
			-15	-10	-5
3 X FRASCOLD "Q" OR "S" COMPRESSORS					
CR3XQ5-21Y-924	Q5-21Y	30	32685	40505	49395
		40	27115	33785	41355
		50	21485	27005	33245
CR3XQ7-28Y-924	Q7-28Y	30	44610	54940	66840
		40	37650	46440	56570
		50	30615	37865	46230
CR3XS12-42Y-926	S12-42Y	30	63585	78615	95875
		40	52720	65665	80605
		50	42045	52890	65485
CR3XS15-52Y-926	S15-52Y	30	83110	101420	122720
		40	71195	86970	105240
		50	58915	72150	87385

## LOW TEMP

### R404A LOW TEMP

Item Number	Model	SCT	Evaporating Temp °C (Watts)				
			-40	-35	-30	-25	-20
3 X FRASCOLD "Q" OR "S" COMPRESSORS							
CR3XQ5-21Y-924	Q5-21Y	30			14845	19930	25855
		40			11685	16140	21260
		50			8490	12310	16615
CR3XQ7-28Y-924	Q7-28Y	30			21695	28125	35715
		40			18000	23565	30070
		50			14220	18930	24350
CR3XS12-42Y-926	S12-42Y	30			30205	39545	50615
		40			24175	32140	41600
		50			18415	24975	32800
CR3XS15-52Y-926	S15-52Y	30	23035	32135	42305	53935	67410
		40	16340	25385	35010	45600	57530
		50			27365	36905	47290

# 4 Compressors

## MEDIUM TEMP

### R404A MED TEMP

Item Number	Model	SCT	Evaporating Temp °C (Watts)		
			-15	-10	-5
4 X FRASCOLD "Q" OR "S" COMPRESSORS					
CR4XQ5-21Y-925	Q5-21Y	30	43580	54010	65865
		40	36155	45050	55140
		50	28650	36005	44325
CR4XQ7-28Y-925	Q7-28Y	30	59480	73255	89120
		40	50200	61915	75425
		50	40820	50485	61640
CR4XS12-42Y-926	S12-42Y	30	84780	104820	127835
		40	70290	87555	107475
		50	56065	70520	87315
CR4XS15-52Y-926	S15-52Y	30	110810	135225	163630
		40	94925	115960	140320
		50	78550	96200	116515

## LOW TEMP

### R404A LOW TEMP

Item Number	Model	SCT	Evaporating Temp °C (Watts)				
			-40	-35	-30	-25	-20
4 X FRASCOLD "Q" OR "S" COMPRESSORS							
CR4XQ5-21Y-925	Q5-21Y	30			19790	26575	34470
		40			15580	21525	28345
		50			11320	16410	22155
CR4XQ7-28Y-925	Q7-28Y	30			28925	37495	47625
		40			24000	31420	40095
		50			18965	25240	32465
CR4XS12-42Y-926	S12-42Y	30			40275	52725	67490
		40			32235	42850	55465
		50			24550	33300	43730
CR4XS15-52Y-926	S15-52Y	30	30715	42845	56410	71915	89880
		40	21785	33850	46685	60800	76710
		50			36485	49205	63055

# 3 Compressors

## HIGH TEMP

### R448A/R449A HIGH TEMP

Item Number	Model	SCT	Evaporating Temp °C (Watts)	
			0	5
3 X FRASCOLD "Q" OR "S" COMPRESSORS				
CR3XQ5-21Y-924	Q5-21Y	30	58650	71150
		40	50970	62205
		50	43395	53355
CR3XQ7-28Y-924	Q7-28Y	30	77510	93900
		40	67580	82345
		50	57475	70575
CR3XS12-42Y-926	S12-42Y	30	116035	141340
		40	84950	122730
		50	84950	104710
CR3XS15-52Y-926	S15-52Y	30	142815	174410
		40	122595	150615
		50	102590	127045

## MEDIUM TEMP

### R448A/R449A MED TEMP

Item Number	Model	SCT	Evaporating Temp °C (Watts)		
			-15	-10	-5
3 X FRASCOLD "Q" OR "S" COMPRESSORS					
CR3XQ5-21Y-924	Q5-21Y	30	30945	38720	47895
		40	26375	33225	41370
		50	21925	27850	34950
CR3XQ7-28Y-924	Q7-28Y	30	40950	51245	63360
		40	35015	44120	54910
		50	29030	36915	46325
CR3XS12-42Y-926	S12-42Y	30	60300	75865	94325
		40	51260	64845	81055
		50	42535	54210	68235
CR3XS15-52Y-926	S15-52Y	30	73170	92620	115695
		40	61540	78485	98695
		50	50075	64530	81895

## LOW TEMP

### R448A/R449A LOW TEMP

Item Number	Model	SCT	Evaporating Temp °C (Watts)				
			-40	-35	-30	-25	-20
3 X FRASCOLD "Q" OR "S" COMPRESSORS							
CR3XQ5-21Y-924	Q5-21Y	30	7325	10575	14395	18955	24415
		40	5620	8530	11895	15880	20650
		50		6630	9530	12935	17010
CR3XQ7-28Y-924	Q7-28Y	30	9445	13780	18890	24985	32265
		40	7250	11130	15640	20980	27370
		50		8605	12465	17020	22470
CR3XS12-42Y-926	S12-42Y	30	13750	20060	27520	36480	47290
		40	10420	16140	22735	30555	39945
		50	7050	12260	18060	24805	32845
CR3XS15-52Y-926	S15-52Y	30	15455	23145	32335	43455	56925
		40	10955	17935	26060	35750	47435
		50	6540	12830	19900	28185	38100

# 4 Compressors

## HIGH TEMP

### R448A/R449A HIGH TEMP

Item Number	Model	SCT	Evaporating Temp °C (Watts)	
			0	5
4 X FRASCOLD "Q" OR "S" COMPRESSORS				
CR4XQ5-21Y-925	Q5-21Y	30	78205	94870
		40	67965	82940
		50	57860	71140
CR4XQ7-28Y-925	Q7-28Y	30	103345	125200
		40	90105	109795
		50	76635	94100
CR4XS12-42Y-926	S12-42Y	30	154710	188455
		40	133645	163640
		50	113270	139615
CR4XS15-52Y-926	S15-52Y	30	190420	232550
		40	163465	200820
		50	136790	169390

## MEDIUM TEMP

### R448A/R449A MED TEMP

Item Number	Model	SCT	Evaporating Temp °C (Watts)		
			-15	-10	-5
4 X FRASCOLD "Q" OR "S" COMPRESSORS					
CR4XQ5-21Y-925	Q5-21Y	30	41260	51625	63865
		40	35165	44300	55160
		50	29235	37135	46600
CR4XQ7-28Y-925	Q7-28Y	30	54600	68325	84480
		40	46685	58830	73210
		50	38710	49215	61765
CR4XS12-42Y-926	S12-42Y	30	80405	101150	125765
		40	68350	86460	108070
		50	56710	72285	90980
CR4XS15-52Y-926	S15-52Y	30	97565	123495	154260
		40	82055	104645	131595
		50	66765	86040	109195

## LOW TEMP

### R448A/R449A LOW TEMP

Item Number	Model	SCT	Evaporating Temp °C (Watts)				
			-40	-35	-30	-25	-20
4 X FRASCOLD "Q" OR "S" COMPRESSORS							
CR4XQ5-21Y-925	Q5-21Y	30	9765	14100	19195	25270	32550
		40	7495	11375	15860	21170	27530
		50		8840	12705	17245	22680
CR4XQ7-28Y-925	Q7-28Y	30	12590	18375	25190	33310	43020
		40	9665	14840	20850	27975	36490
		50		11475	16625	22690	29960
CR4XS12-42Y-926	S12-42Y	30	18335	26745	36690	48640	63055
		40	13890	21520	30315	40740	53260
		50	9405	16345	24080	33075	43795
CR4XS15-52Y-926	S15-52Y	30	20610	30860	43115	57940	75900
		40	14605	23915	34745	47670	63250
		50	8725	17105	26535	37580	50800

# 3 Compressors

## HIGH TEMP

### R134a HIGH TEMP

Item Number	Model	SCT	Evaporating Temp °C (Watts)		
			0	5	10
3 X FRASCOLD "Q" OR "S" COMPRESSORS					
CR3XQ5-21Y-924	Q5-21Y	30	34755	43080	52675
		40	30350	37905	46640
		50	25840	32585	40410
CR3XQ7-28Y-924	Q7-28Y	30	45910	56645	69070
		40	40400	50040	61225
		50	34785	43305	53215
CR3XS12-42Y-926	S12-42Y	30	70175	85510	102960
		40	61440	75440	91420
		50	52750	65370	79845
CR3XS15-52Y-926	S15-52Y	30	86700	105740	127790
		40	76975	94125	113995
		50	67090	82315	99980

## MEDIUM TEMP

### R134a MED TEMP

Item Number	Model	SCT	Evaporating Temp °C (Watts)		
			-15	-10	-5
3 X FRASCOLD "Q" OR "S" COMPRESSORS					
CR3XQ5-21Y-924	Q5-21Y	30	16600	21595	27620
		40	13940	18450	23895
		50	11310	15285	20100
CR3XQ7-28Y-924	Q7-28Y	30	22595	29015	36740
		40	19480	25245	32180
		50	16345	21435	27540
CR3XS12-42Y-926	S12-42Y	30	35510	45310	56820
		40	30000	38855	49290
		50	24665	32530	41850
CR3XS15-52Y-926	S15-52Y	30	44885	56545	70395
		40	39130	49750	62275
		50	33295	42850	54025

## LOW TEMP

### R134a LOW TEMP

Item Number	Model	SCT	Evaporating Temp °C (Watts)		
			-30	-25	-20
3 X FRASCOLD "Q" OR "S" COMPRESSORS					
CR3XQ5-21Y-924	Q5-21Y	30			12550
		40			10290
		50			8095
CR3XQ7-28Y-924	Q7-28Y	30			17360
		40			14745
		50			12140
CR3XS12-42Y-926	S12-42Y	30	15050	20515	27290
		40	11585	16500	22595
		50	8430	12750	18115
CR3XS15-52Y-926	S15-52Y	30	20310	27040	35145
		40	15960	22510	30140
		50	11620	17955	25090

# 4 Compressors

## HIGH TEMP

### R134a HIGH TEMP

Item Number	Model	SCT	Evaporating Temp °C (Watts)		
			0	5	10
4 X FRASCOLD "Q"OR "S" COMPRESSORS					
CR4XQ5-21Y-925	Q5-21Y	30	46340	57440	70230
		40	40470	50540	62185
		50	34455	43445	53880
CR4XQ7-28Y-925	Q7-28Y	30	61215	75525	92090
		40	53865	66720	81630
		50	46385	57740	70955
CR4XS12-42Y-926	S12-42Y	30	93565	114015	137280
		40	81920	100585	121895
		50	70335	87160	106460
CR4XS15-52Y-926	S15-52Y	30	115600	140990	170385
		40	102635	125500	151995
		50	89450	109755	133310

## MEDIUM TEMP

### R134a MED TEMP

Item Number	Model	SCT	Evaporating Temp °C (Watts)		
			-15	-10	-5
4 X FRASCOLD "Q"OR "S" COMPRESSORS					
CR4XQ5-21Y-925	Q5-21Y	30	22135	28795	36830
		40	18590	24600	31855
		50	15080	20380	26800
CR4XQ7-28Y-925	Q7-28Y	30	30125	38685	48990
		40	25970	33660	42905
		50	21790	28580	36720
CR4XS12-42Y-926	S12-42Y	30	47345	60410	75755
		40	40000	51805	65720
		50	32890	43375	55800
CR4XS15-52Y-926	S15-52Y	30	59850	75395	93860
		40	52175	66335	83035
		50	44395	57135	72030

## LOW TEMP

### R134a LOW TEMP

Item Number	Model	SCT	Evaporating Temp °C (Watts)		
			-30	-25	-20
4 X FRASCOLD "Q"OR "S" COMPRESSORS					
CR4XQ5-21Y-925	Q5-21Y	30			16735
		40			13715
		50			10795
CR4XQ7-28Y-925	Q7-28Y	30			23150
		40			19660
		50			16190
CR4XS12-42Y-926	S12-42Y	30	20065	27355	36390
		40	15450	22000	30125
		50	11240	17000	24155
CR4XS15-52Y-926	S15-52Y	30	27080	36055	46855
		40	21280	30010	40185
		50	15490	23935	33450

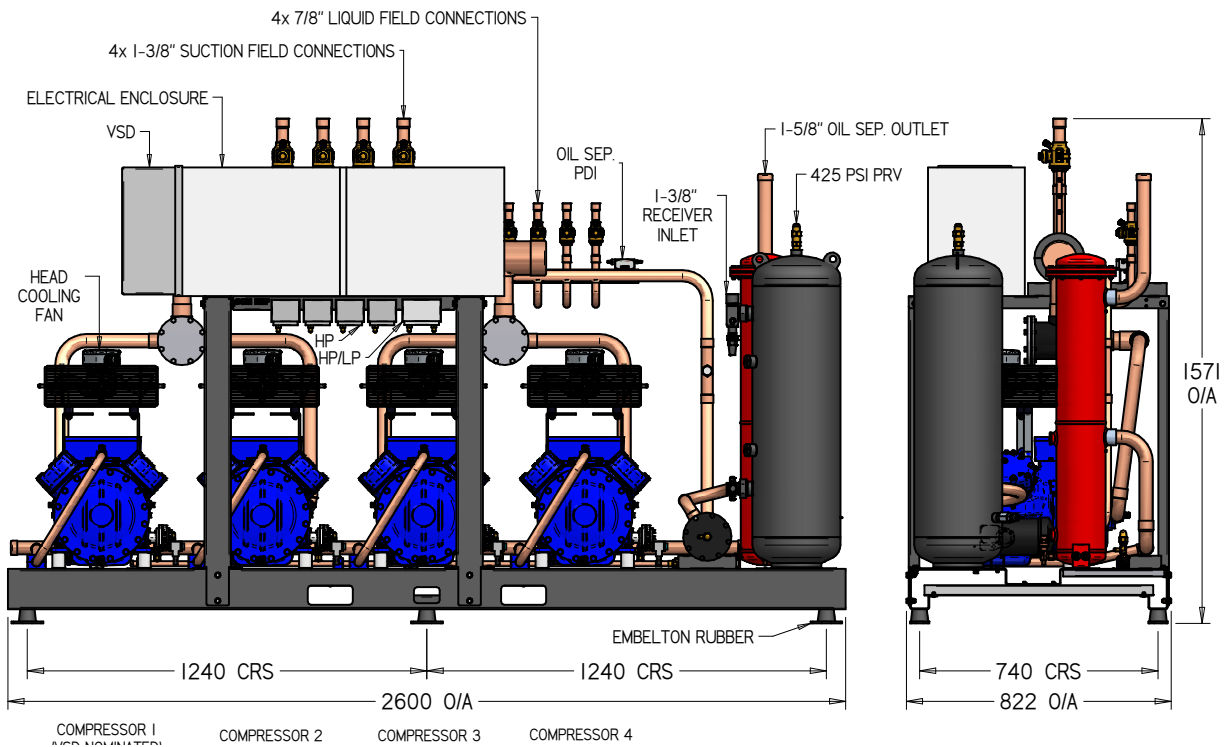
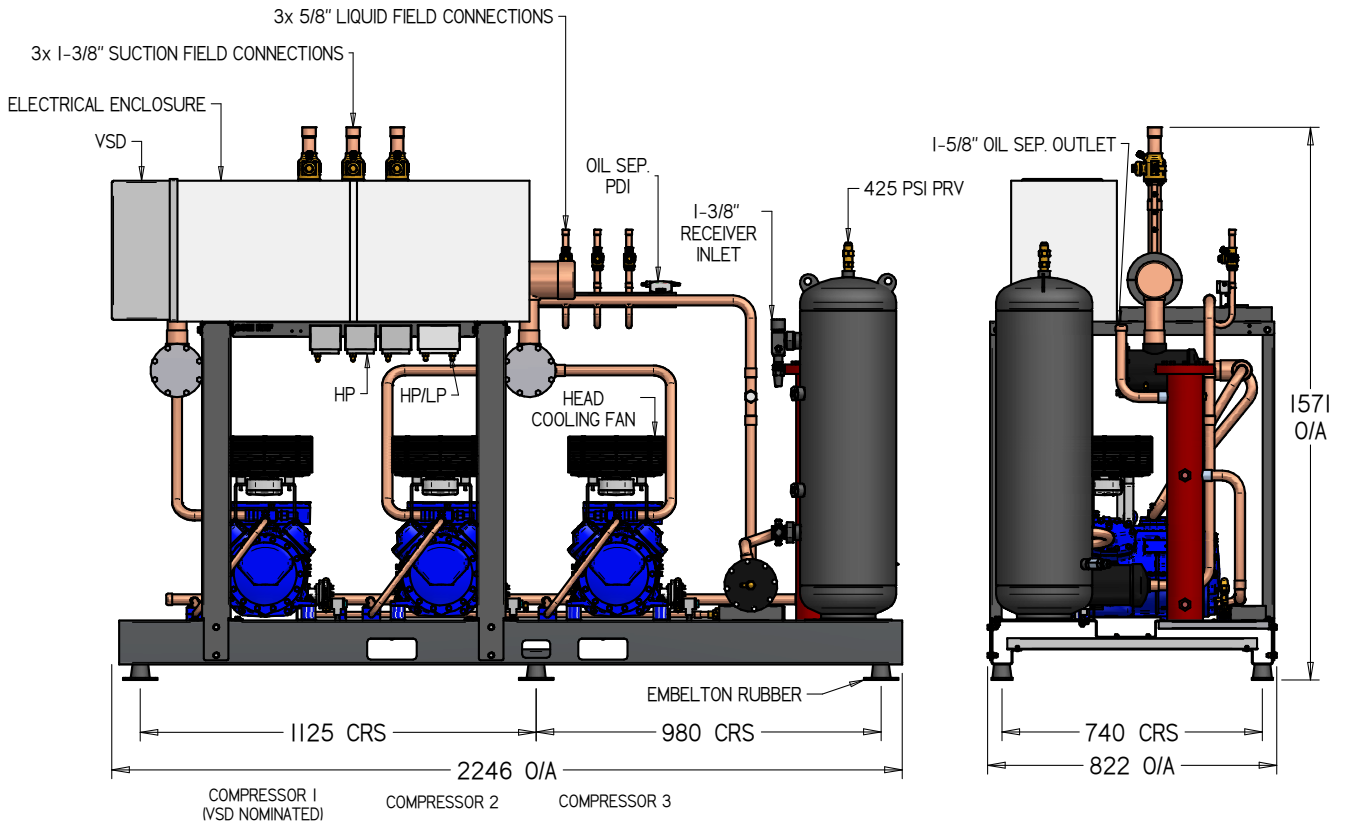


**TECHNICAL DATA**

Item Number	COMPRESSOR						ELEC DATA- R448A			ELEC DATA- R134a			ELEC DATA- R404A		
	Model	DISPL (ea)	QTY	TYPE	LRA (DOL)	MCC	MOC	RLA	POWER	MOC	RLA	POWER	MOC	RLA	POWER
		m <sup>3</sup> /hr		380-420V/ 3Ph/50Hz	A/Ph	A/Ph	A/Ph	A/Ph	WATTS	A/Ph	A/Ph	WATTS	A/Ph	A/Ph	WATTS
FRASCOLD "Q" & "S" COMPRESSORS															
CR3XQ5-21Y-924	Q5-21Y	21.18	3	Y-DOL	189.3	34.8	33.8	26.0	14225	26.6	18.2	8180	32.5	27.1	15040
CR3XQ7-28Y-924	Q7-28Y	28.02	3	Y-DOL	261.9	52.8	46.9	37.9	18695	41.1	30.8	11620	49.1	41.1	21385
CR3XS12-42Y-926	S12-42Y	41.32	3	Y-DOL	306.9	67.2	59.0	45.7	26400	51.2	30.2	15340	62.2	49.2	28700
CR3XS15-52Y-926	S15-52Y	51.5	3	Y-DOL	351.3	97.2	78.4	65.5	32000	73.1	52.5	19840	92.7	73.7	38205
CR4XQ5-21Y-925	Q5-21Y	21.18	4	Y-DOL	252.4	46.4	45.1	34.6	18964	35.4	24.3	10904	43.3	36.1	20052
CR4XQ7-28Y-925	Q7-28Y	28.02	4	Y-DOL	349.2	70.4	62.5	50.5	24924	54.8	41.0	15496	65.5	54.8	28512
CR4XS12-42Y-926	S12-42Y	41.32	4	Y-DOL	409.2	89.6	78.7	61.0	35200	68.3	40.2	20456	82.9	65.6	38264
CR4XS15-52Y-926	S15-52Y	51.5	4	Y-DOL	468.4	129.6	104.5	87.3	42664	97.5	70.0	26456	123.6	98.2	50940

Item Number	COMPRESSOR	GENERAL DATA				CONNECTIONS				DIMENSIONS					
		REC'R VOL	SHIP'G VOL	SHIP'G WEIGHT	INST'D WEIGHT	DISCH	LIQ RET	FIELD SUCT.	FIELD LIQ	HEIGHT	WIDTH	DEPTH	CRS "A"	CRS "B"	CRS "C"
		Ltrs	m <sup>3</sup>	kg	kg	mm	mm	Qty x mm	Qty x mm	mm					
FRASCOLD COMPRESSORS															
CR3XQ5-21Y-924	Q5-21Y	50	4.25	635	535	28.6	34.9	3 x 34.9	3 x 15.9	1571	2246	822	1125	980	740
CR3XQ7-28Y-924	Q7-28Y		4.25	635	535	28.6	34.9	3 x 34.9	3 x 15.9	1571	2246	822	1125	980	740
CR3XS12-42Y-926	S12-42Y		4.25	770	670	41.3	34.9	3 x 34.9	3 x 22.2	1571	2246	822	1125	980	740
CR3XS15-52Y-926	S15-52Y		4.25	790	690	41.3	34.9	3 x 34.9	3 x 22.2	1571	2246	822	1125	980	740
CR4XQ5-21Y-925	Q5-21Y	50	4.85	735	625	34.9	34.9	4 x 34.9	4 x 15.9	1571	2600	822	1240	1240	740
CR4XQ7-28Y-925	Q7-28Y		4.85	735	625	34.9	34.9	4 x 34.9	4 x 15.9	1571	2600	822	1240	1240	740
CR4XS12-42Y-926	S12-42Y		4.85	910	800	41.3	34.9	4 x 34.9	4 x 22.2	1571	2600	822	1240	1240	740
CR4XS15-52Y-926	S15-52Y		4.85	935	825	41.3	34.9	4 x 34.9	4 x 22.2	1571	2600	822	1240	1240	740

# DIMENSIONS



Drawing is for dimensional purposes only. Type and layout of component may vary on different models.

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