

VIKING 224A-CHC1 AND 224A-CHC2 SERIES SPECIFICATIONS

STANDARD MATERIALS OF CONSTRUCTION

CASING, HEAD, BRACKET AND IDLER: Cast Iron, ASTM A48, Class 35B (except H/HL idlers are powdered metal, MPIF 35, FC-0208-45)

ROTOR: Steel, ASTM A148, Grade 80-40 (Sizes H, HL, K, LQ, LL, Q); or Ductile Iron, ASTM A536, Grade 60-40-18 (Sizes KK, LS, QS)

SHAFT AND IDLER PIN: Hardened Steel, ASTM A108, Grade 1045

BRACKET AND IDLER BUSHINGS: Hardened cast iron, ASTM A48, Class 35B

SEALS: Food grade gaskets (aramid fiber w/SBR binder) and FDA FKM O-rings

LUBRICANTS: H1 Food Grade Grease in bracket and bearing housing

CERTIFICATIONS

EC1935/2004 Compliant (ensures that the migration of harmful substances between the pump materials and food remains within specific tolerances to avoid contamination and adverse taste changes.)

PERFORMANCE

MAX. TEMPERATURE: 225°F / 107°C

MAX. DIFFERENTIAL PRESSURE: 200 PSI / 14 BAR

CAPACITY: See table below.

CHC1 Models are for Cocoa Liquor, All Chocolates, and Pastes (≈5,000 to 200,000 cPs)

CHC2 Models are for Cocoa Butter, Oils, Lecithin (≈1 to 5,000 cPs)

CHC1 Models	Max RPM	Capacity at listed pressure, 10,000 cPs, 1.25 SG				Ports			CHC2 Models	Max RPM	Capacity at listed pressure, 30 cPs, 0.9 SG			
		GPM	LPM	TPH	PSI						GPM	LPM	TPH	PSI
H224A-CHC1	280	2	8	0.62	50	1.5"	NPT	90°	H224A-CHC2	1000	7.9	30	1.7	100
H224A-CHC1	280	2	8	0.62	50	2"	Flange	90°	H224A-CHC2	1000	7.9	30	1.7	100
HL224A-CHC1	280	4	15	1.2	50	1.5"	NPT	90°	HL224A-CHC2	1000	16.6	62	3.7	100
HL224A-CHC1	280	4	15	1.2	50	2"	Flange	90°	HL224A-CHC2	1000	16.6	62	3.7	100
K224A-CHC1	190	17	64	5.3	100	2"	NPT	90°	K224A-CHC2	780	74	280	16.6	100
K224A-CHC1	190	17	64	5.3	100	2"	Flange	90°	K224A-CHC2	780	74	280	16.6	100
K224A-CHC1	190	17	64	5.3	100	3"	Flange	90°	K224A-CHC2	780	74	280	16.6	100
KK224A-CHC1	190	23	87	7.2	100	2"	NPT	90°	KK224A-CHC2	780	100	378	22.5	100
KK224A-CHC1	190	23	87	7.2	100	2"	Flange	90°	KK224A-CHC2	780	100	378	22.5	100
KK224A-CHC1	190	23	87	7.2	100	3"	Flange	90°	KK224A-CHC2	780	100	378	22.5	100
LQ224A-CHC1	125	25	95	7.8	100	3"	Flange	90°	LQ224A-CHC2	640	141	533	31.7	100
LQ224A-CHC1	125	25	95	7.8	100	4"	Flange	90°	LQ224A-CHC2	640	141	533	31.7	100
LL224A-CHC1	125	32	121	10.0	100	3"	Flange	90°	LL224A-CHC2	520	141	533	31.7	100
LL224A-CHC1	125	32	121	10.0	100	4"	Flange	90°	LL224A-CHC2	520	141	533	31.7	100
LS224A-CHC1	125	37	140	11.5	100	3"	Flange	90°	LS224A-CHC2	640	206	780	46	100
LS224A-CHC1	125	37	140	11.5	100	4"	Flange	90°	LS224A-CHC2	640	206	780	46	100
Q224A-CHC1	100	54	204	16.9	100	4"	Flange	90°	Q224A-CHC2	470	260	984	58	100
QS224A-CHC1	100	78	295	24.4	100	6"	Flange	180°	QS224A-CHC2	470	400	1514	90	100

VIKING 224A-CHC1 AND 224A-CHC2 SERIES SPECIFICATIONS

ORDERING INFORMATION

CHC1 PUMP LMs & KITS*					
PUMP SIZE	PORT OPTION	PUMP LM	SEAL CONVERSION KIT	O-RING KIT	REBUILD KIT
H224A-CHC1	1.5" Tapped	5-1462-661A-002	3-464-SEAL-K450	3-464-ORG-877-H1	3-464-REBUILD-K467
H224A-CHC1	2" 125# Flanged	5-1462-662A-001	3-464-SEAL-K450	3-464-ORG-877-H1	3-464-REBUILD-K467
HL224A-CHC1	1.5" Tapped	5-1412-661A-004	3-464-SEAL-K450	3-464-ORG-877-H1	3-464-REBUILD-K468
HL224A-CHC1	2" 125# Flanged	5-1412-662A-001	3-464-SEAL-K450	3-464-ORG-877-H1	3-464-REBUILD-K468
K224A-CHC1	2" Tapped	5-2515-661A-001	3-464-SEAL-K451	3-464-ORG-877-K1	3-464-REBUILD-K469
K224A-CHC1	2" 125# Flanged	5-2515-662A-008	3-464-SEAL-K451	3-464-ORG-877-K1	3-464-REBUILD-K469
K224A-CHC1	3" 125# Flanged	5-2515-662A-009	3-464-SEAL-K451	3-464-ORG-877-K1	3-464-REBUILD-K469
KK224A-CHC1	2" Tapped	5-2520-661A-002	3-464-SEAL-K451	3-464-ORG-877-K1	3-464-REBUILD-K470
KK224A-CHC1	2" 125# Flanged	5-2520-662A-006	3-464-SEAL-K451	3-464-ORG-877-K1	3-464-REBUILD-K470
KK224A-CHC1	3" 125# Flanged	5-2520-662A-007	3-464-SEAL-K451	3-464-ORG-877-K1	3-464-REBUILD-K470
LQ224A-CHC1	3" 125# Flanged	5-3320-662A-007	3-464-SEAL-K452	3-464-ORG-877-L2	3-464-REBUILD-K471
LQ224A-CHC1	4" 125# Flanged	5-3320-662A-008	3-464-SEAL-K452	3-464-ORG-877-L2	3-464-REBUILD-K471
LL224A-CHC1	3" 125# Flanged	5-3325-662A-002	3-464-SEAL-K452	3-464-ORG-877-L2	3-464-REBUILD-K472
LL224A-CHC1	4" 125# Flanged	5-3325-662A-003	3-464-SEAL-K452	3-464-ORG-877-L2	3-464-REBUILD-K472
LS224A-CHC1	3" 125# Flanged	5-3330-662A-004	3-464-SEAL-K453	3-464-ORG-877-L1	3-464-REBUILD-K473
LS224A-CHC1	4" 125# Flanged	5-3330-662A-005	3-464-SEAL-K453	3-464-ORG-877-L1	3-464-REBUILD-K473
Q224A-CHC1	4" 125# Flanged	5-4430-662A-004	3-464-SEAL-K454	3-464-ORG-877-Q1	3-464-REBUILD-K474
QS224A-CHC1	6" 125# Flanged	5-4445-662A-007	3-464-SEAL-K454	3-464-ORG-877-Q1	3-464-REBUILD-K475

CHC2 PUMP LMs & KITS*					
PUMP SIZE	PORT OPTION	PUMP LM	SEAL CONVERSION KIT	O-RING KIT	REBUILD KIT
H224A-CHC2	1.5" Tapped	5-1462-661A-003	3-464-SEAL-K450	3-464-ORG-877-H1	3-464-REBUILD-K467
H224A-CHC2	2" 125# Flanged	5-1462-662A-002	3-464-SEAL-K450	3-464-ORG-877-H1	3-464-REBUILD-K467
HL224A-CHC2	1.5" Tapped	5-1412-661A-005	3-464-SEAL-K450	3-464-ORG-877-H1	3-464-REBUILD-K468
HL224A-CHC2	2" 125# Flanged	5-1412-662A-002	3-464-SEAL-K450	3-464-ORG-877-H1	3-464-REBUILD-K468
K224A-CHC2	2" Tapped	5-2515-661A-002	3-464-SEAL-K451	3-464-ORG-877-K1	3-464-REBUILD-K469
K224A-CHC2	2" 125# Flanged	5-2515-662A-011	3-464-SEAL-K451	3-464-ORG-877-K1	3-464-REBUILD-K469
K224A-CHC2	3" 125# Flanged	5-2515-662A-010	3-464-SEAL-K451	3-464-ORG-877-K1	3-464-REBUILD-K469
KK224A-CHC2	2" Tapped	5-2520-661A-003	3-464-SEAL-K451	3-464-ORG-877-K1	3-464-REBUILD-K470
KK224A-CHC2	2" 125# Flanged	5-2520-662A-008	3-464-SEAL-K451	3-464-ORG-877-K1	3-464-REBUILD-K470
KK224A-CHC2	3" 125# Flanged	5-2520-662A-009	3-464-SEAL-K451	3-464-ORG-877-K1	3-464-REBUILD-K470
LQ224A-CHC2	3" 125# Flanged	5-3320-662A-010	3-464-SEAL-K452	3-464-ORG-877-L2	3-464-REBUILD-K471
LQ224A-CHC2	4" 125# Flanged	5-3320-662A-009	3-464-SEAL-K452	3-464-ORG-877-L2	3-464-REBUILD-K471
LL224A-CHC2	3" 125# Flanged	5-3325-662A-004	3-464-SEAL-K452	3-464-ORG-877-L2	3-464-REBUILD-K472
LL224A-CHC2	4" 125# Flanged	5-3325-662A-005	3-464-SEAL-K452	3-464-ORG-877-L2	3-464-REBUILD-K472
LS224A-CHC2	3" 125# Flanged	5-3330-662A-007	3-464-SEAL-K453	3-464-ORG-877-L1	3-464-REBUILD-K473
LS224A-CHC2	4" 125# Flanged	5-3330-662A-006	3-464-SEAL-K453	3-464-ORG-877-L1	3-464-REBUILD-K473
Q224A-CHC2	4" 125# Flanged	5-4430-662A-005	3-464-SEAL-K454	3-464-ORG-877-Q1	3-464-REBUILD-K474
QS224A-CHC2	6" 125# Flanged	5-4445-662A-008	3-464-SEAL-K454	3-464-ORG-877-Q1	3-464-REBUILD-K475

*224A-CHC1 pumps (for all chocolates and liquor) and 224A-CHC2 pumps (for cocoa butter and non-chocolate liquids) are identical, except the 224A-CHC1 pump casings feature flush and suckback grooves to prevent chocolate buildup behind the rotor.