



Metric Nozzle Selection Chart X-45

| Ristretto | | Multiplier | MI/Minute Flow Rate - Hours | | | | | | | | | | | | | |
|-------------------------------------|-----------------|------------|-----------------------------|--------|-------|--------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| Yield Liters | Dispense Liters | 3 | Hours | | | | | | | | | | | | | |
| | | Kg Coffee | 1 | 1.25 | 1.5 | 1.75 | 2 | 2.25 | 2.5 | 2.75 | 3 | 3.25 | 3.5 | 3.75 | 4 | |
| 7.5 | 10.75 | 2.5 | 179.2 | 143.3 | 119.4 | 102.4 | 89.6 | 79.6 | 71.7 | 65.2 | 59.7 | 55.1 | 51.2 | 47.8 | 44.8 | |
| 30.0 | 43.00 | 10.0 | 716.7 | 573.3 | 477.8 | 409.5 | 358.3 | 318.5 | 286.7 | 260.6 | 238.9 | 220.5 | 204.8 | 191.1 | 179.2 | |
| 36.0 | 51.60 | 12.0 | 860.0 | 688.0 | 573.3 | 491.4 | 430.0 | 382.2 | 344.0 | 312.7 | 286.7 | 264.6 | 245.7 | 229.3 | 215.0 | |
| 42.0 | 60.20 | 14.0 | 1003.3 | 802.7 | 668.9 | 573.3 | 501.7 | 445.9 | 401.3 | 364.8 | 334.4 | 308.7 | 286.7 | 267.6 | 250.8 | |
| 45.0 | 64.50 | 15.0 | 1075.0 | 860.0 | 716.7 | 614.3 | 537.5 | 477.8 | 430.0 | 390.9 | 358.3 | 330.8 | 307.1 | 286.7 | 268.8 | |
| 48.0 | 68.80 | 16.0 | 1146.7 | 917.3 | 764.4 | 655.2 | 573.3 | 509.6 | 458.7 | 417.0 | 382.2 | 352.8 | 327.6 | 305.8 | 286.7 | |
| 51.0 | 73.10 | 17.0 | 1218.3 | 974.7 | 812.2 | 696.2 | 609.2 | 541.5 | 487.3 | 443.0 | 406.1 | 374.9 | 348.1 | 324.9 | 304.6 | |
| 54.0 | 77.40 | 18.0 | 1290.0 | 1032.0 | 860.0 | 737.1 | 645.0 | 573.3 | 516.0 | 469.1 | 430.0 | 396.9 | 368.6 | 344.0 | 322.5 | |
| Nozzles- Standard Flow Rates | | | Hago M3 | DBL-3 | DBL-4 | WL 1/4 | No Go Zone | | | | | | | | | |
| | | | 110 | 190 | 265 | 365 | | | | | | | | | | |
| | | | 140 | 265 | 365 | 800 | | | | | | | | | | |
| Mezzo | | Multiplier | MI/Minute Flow Rate - Hours | | | | | | | | | | | | | |
| Yield Liters | Dispense Liters | 3.5 | Hours | | | | | | | | | | | | | |
| | | Kg Coffee | 1 | 1.25 | 1.5 | 1.75 | 2 | 2.25 | 2.5 | 2.75 | 3 | 3.25 | 3.5 | 3.75 | 4 | |
| 8.8 | 10.00 | 2.5 | 166.7 | 133.3 | 111.1 | 95.2 | 83.3 | 74.1 | 66.7 | 60.6 | 55.6 | 51.3 | 47.6 | 44.4 | 41.7 | |
| 35.0 | 40.00 | 10.0 | 666.7 | 533.3 | 444.4 | 381.0 | 333.3 | 296.3 | 266.7 | 242.4 | 222.2 | 205.1 | 190.5 | 177.8 | 166.7 | |
| 42.0 | 48.00 | 12.0 | 800.0 | 640.0 | 533.3 | 457.1 | 400.0 | 355.6 | 320.0 | 290.9 | 266.7 | 246.2 | 228.6 | 213.3 | 200.0 | |
| 49.0 | 56.00 | 14.0 | 933.3 | 746.7 | 622.2 | 533.3 | 466.7 | 414.8 | 373.3 | 339.4 | 311.1 | 287.2 | 266.7 | 248.9 | 233.3 | |
| 52.5 | 60.00 | 15.0 | 1000.0 | 800.0 | 666.7 | 571.4 | 500.0 | 444.4 | 400.0 | 363.6 | 333.3 | 307.7 | 285.7 | 266.7 | 250.0 | |
| 56.0 | 64.00 | 16.0 | 1066.7 | 853.3 | 711.1 | 609.5 | 533.3 | 474.1 | 426.7 | 387.9 | 355.6 | 328.2 | 304.8 | 284.4 | 266.7 | |
| 59.5 | 68.00 | 17.0 | 1133.3 | 906.7 | 755.6 | 647.6 | 566.7 | 503.7 | 453.3 | 412.1 | 377.8 | 348.7 | 323.8 | 302.2 | 283.3 | |
| 63.0 | 72.00 | 18.0 | 1200.0 | 960.0 | 800.0 | 685.7 | 600.0 | 533.3 | 480.0 | 436.4 | 400.0 | 369.2 | 342.9 | 320.0 | 300.0 | |



Metric Nozzle Selection Chart X-45

| Lungo | | Multipliyer | MI/Minute Flow Rate - Hours | | | | | | | | | | | | |
|---------------------|------------------------|--------------------|------------------------------------|--------------|------------|-------------|----------|-------------|------------|-------------|----------|-------------|------------|-------------|----------|
| Yield Liters | Dispense Liters | | 4 | Hours | | | | | | | | | | | |
| | | Kg Coffee | 1 | 1.25 | 1.5 | 1.75 | 2 | 2.25 | 2.5 | 2.75 | 3 | 3.25 | 3.5 | 3.75 | 4 |
| 10.0 | 10.50 | 2.5 | 175.0 | 140.0 | 116.7 | 100.0 | 87.5 | 77.8 | 70.0 | 63.6 | 58.3 | 53.8 | 50.0 | 46.7 | 43.8 |
| 40.0 | 42.00 | 10.0 | 700.0 | 560.0 | 466.7 | 400.0 | 350.0 | 311.1 | 280.0 | 254.5 | 233.3 | 215.4 | 200.0 | 186.7 | 175.0 |
| 48.0 | 50.40 | 12.0 | 840.0 | 672.0 | 560.0 | 480.0 | 420.0 | 373.3 | 336.0 | 305.5 | 280.0 | 258.5 | 240.0 | 224.0 | 210.0 |
| 56.0 | 58.80 | 14.0 | 980.0 | 784.0 | 653.3 | 560.0 | 490.0 | 435.6 | 392.0 | 356.4 | 326.7 | 301.5 | 280.0 | 261.3 | 245.0 |
| 60.0 | 63.00 | 15.0 | 1050.0 | 840.0 | 700.0 | 600.0 | 525.0 | 466.7 | 420.0 | 381.8 | 350.0 | 323.1 | 300.0 | 280.0 | 262.5 |
| 64.0 | 67.20 | 16.0 | 1120.0 | 896.0 | 746.7 | 640.0 | 560.0 | 497.8 | 448.0 | 407.3 | 373.3 | 344.6 | 320.0 | 298.7 | 280.0 |
| 68.0 | 71.40 | 17.0 | 1190.0 | 952.0 | 793.3 | 680.0 | 595.0 | 528.9 | 476.0 | 432.7 | 396.7 | 366.2 | 340.0 | 317.3 | 297.5 |
| 72.0 | 75.60 | 18.0 | 1260.0 | 1008.0 | 840.0 | 720.0 | 630.0 | 560.0 | 504.0 | 458.2 | 420.0 | 387.7 | 360.0 | 336.0 | 315.0 |